

Radius Health, Inc.  
Form S-1/A  
September 28, 2012

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As filed with the Securities and Exchange Commission on September 28, 2012

Registration No. 333-179397

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

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**AMENDMENT NO. 1  
to  
FORM S-1  
REGISTRATION STATEMENT  
UNDER  
THE SECURITIES ACT OF 1933**

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**Radius Health, Inc.**

(Exact name of registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**2834**  
(Primary Standard Industrial  
Classification Code Number)  
**201 Broadway, 6th Floor**  
**Cambridge, Massachusetts 02139**  
**(617) 551-4700**

**80-0145732**  
(I.R.S. Employer  
Identification Number)

(Address, including zip code, and telephone number, including  
area code, of registrant's principal executive offices)

**Michael S. Wyzga**  
**Chief Executive Officer**  
**Radius Health, Inc.**  
**201 Broadway, 6th Floor**  
**Cambridge, Massachusetts 02139**  
**(617) 551-4700**

(Name, address, including zip code, and telephone number, including area code, of agent for service)

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Boston, Massachusetts 02116  
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Approximate date of commencement of proposed sale to the public:  
As soon as practicable after this Registration Statement becomes effective.

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If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definitions of "large accelerated filer," "accelerated filer," and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

**The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.**

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**The information in this preliminary prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.**

PRELIMINARY PROSPECTUS      Subject to Completion      September 28, 2012

**Prospectus**

**Shares**

**Common Stock**

Radius Health, Inc. is offering \_\_\_\_\_ shares of its common stock. See "The offering." Prior to this offering, there has been no public market for our common stock. We currently expect the public offering price of our common stock to be between \$ \_\_\_\_\_ and \$ \_\_\_\_\_ per share.

After the pricing of this offering, we expect that our common stock will be listed on the NASDAQ Global Market under the symbol "RDUS."

**Investing in our common stock involves a high degree of risk. Before buying any shares of our common stock, you should carefully read the discussion of material risks of investing in our common stock in "Risk factors" beginning on page 10 of this prospectus.**

**Neither the Securities and Exchange Commission nor any state securities commission nor any other regulatory body has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.**

	<b>Per share</b>	<b>Total</b>
Public offering price	\$ _____	\$ _____
Underwriting discounts and commissions	\$ _____	\$ _____
Proceeds, before expenses, to us	\$ _____	\$ _____

The underwriters may also purchase up to an additional \_\_\_\_\_ shares of our common stock at the public offering price, less the underwriting discounts and commissions payable by us, to cover over-allotments, if any, within 30 days from the date of this prospectus. If the underwriters exercise this option in full, the total underwriting discounts and commissions will be \$ \_\_\_\_\_ and our total proceeds, before expenses will be \$ \_\_\_\_\_.

Certain of our existing stockholders and their affiliated entities have indicated an interest in purchasing an aggregate of up to approximately \$ \_\_\_\_\_ in shares of our common stock in this offering at the initial public offering price. However, because indications of interest are not binding agreements or commitments to purchase, these stockholders may determine to purchase fewer shares than they indicate an interest in purchasing or not to purchase any shares in this offering. In addition, the underwriters could determine to sell fewer shares to these stockholders than the stockholders indicate an interest in purchasing or not to sell any shares to these stockholders.

The underwriters are offering the common stock as set forth under "Underwriting." Delivery of the shares will be made on or about \_\_\_\_\_, 2012.

**UBS Investment Bank**

**Leerink Swann**

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**Cowen and Company**

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You should rely only on the information contained in this prospectus. We have not, and the underwriters have not, authorized anyone to provide you with additional information or information different from that contained in this prospectus. We are offering to sell, and seeking offers to buy, shares of our common stock only in jurisdictions where offers and sales are permitted. The information contained in this prospectus is accurate only as of the date of this prospectus, regardless of the time of delivery of this prospectus or of any sale of our common stock.

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In this prospectus, references to "dollar" or "\$" are to the legal currency of the United States, and references to "euro" or "€" are to the single currency introduced on January 1, 1999 at the start of the third stage of European Economic and Monetary Union, pursuant to the Treaty establishing the European Communities, as amended by the Treaty on European Union and the Treaty of Amsterdam. Unless otherwise indicated, the financial information in this prospectus has been expressed in U.S. dollars. Unless otherwise stated, the U.S. dollar equivalent information translating euros into U.S. dollars has been made, for convenience purposes, on the basis of the noon buying rate published by the Board of Governors of the Federal Reserve as of June 29, 2012, which was €1.00 = \$1.2668. Such translations should not be construed as a representation that the euro has been, could have been or could be converted into U.S. dollars at the rate indicated, any particular rate or at all.

All trademarks appearing in this prospectus are the property of their respective holders.

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## Prospectus summary

*This summary highlights information contained elsewhere in this prospectus and does not contain all of the information that you should consider before you decide to invest in our common stock. Investing in our common stock involves a high degree of risk. You should carefully read this entire prospectus, including our financial statements and the related notes included in this prospectus and the information set forth under the headings "Risk factors" and "Management's discussion and analysis of financial condition and results of operations."*

*Unless the context requires otherwise, the terms "Radius," "Company," "we," "us" and "our" refer to Radius Health, Inc. (f/k/a MPM Acquisition Corp.). See " Our Corporate Information."*

### **OUR BUSINESS**

We are a biopharmaceutical company focused on developing new therapeutics for the treatment of osteoporosis and other women's health conditions. Our lead product candidate is BA058, a novel synthetic peptide analog of human parathyroid hormone-related protein, or hPTHrP, a naturally-occurring bone building hormone. We are developing BA058 as a treatment for osteoporosis in both injection (with BA058-SC, a subcutaneous injection currently in a Phase 3 clinical study) and transdermal (with BA058-TD, a short wear-time, transdermal patch currently in a Phase 2 clinical study) methods of administration. Osteoporosis is a disease characterized by low bone mass and structural deterioration of bone tissue, which can lead to an increase in fractures. We believe that BA058 stimulates the rapid formation of new, high-quality bone in patients suffering from osteoporosis and may restore bone mineral density, or BMD, in these patients into the normal reference range.

### **OUR MARKET OPPORTUNITY**

The National Osteoporosis Foundation, or the NOF, has estimated that 10 million people in the United States, comprising eight million women and two million men, have osteoporosis, and another 34 million have low bone mass placing them at increased risk for osteoporosis. In addition, the NOF has estimated that osteoporosis was responsible for more than two million fractures in the United States in 2005 resulting in an estimated \$19 billion in costs. The NOF expects that the number of fractures due to osteoporosis will rise to three million by 2025. Worldwide, osteoporosis affects an estimated 200 million women according to the International Osteoporosis Foundation, or the IOF. The IOF has also estimated that 1.6 million hip fractures occur worldwide each year, and by 2050 this number could reach between 4.5 and 6.3 million.

There are two main types of osteoporosis drugs currently available, anti-resorptive agents and anabolic agents. Anti-resorptive agents act to prevent further bone loss by inhibiting the breakdown of bone, whereas anabolic agents stimulate bone formation to build new, high-quality bone. We believe there is a large unmet need in the market for osteoporosis treatment because existing therapies have shortcomings in efficacy, tolerability and convenience. For example, the current standard of care, bisphosphonates, an anti-resorptive agent, has been associated with infrequent but serious adverse events such as osteonecrosis of the jaw, atrial fibrillation and anomalous fractures, especially of long bones, resulting from "frozen bone." Accordingly, we believe that there is a significant opportunity for a new therapeutic such as BA058, an anabolic agent, that will increase BMD to a greater degree and at a faster rate than other approved drugs for the treatment of osteoporosis with added advantages in convenience and safety.

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**OUR PRODUCT CANDIDATES**

In August 2009, we announced positive Phase 2 data which showed that BA058-SC produced faster and greater BMD increases at the spine and the hip with substantially less hypercalcemia than Forteo, the only approved anabolic agent for the treatment of osteoporosis in the United States. Specifically, our study demonstrated that total analyzable hip BMD showed a more than five-fold benefit of BA058 at a dose of 80 µg over Forteo after six months, and BA058 at a dose of 80 µg increased mean lumbar spine BMD by 6.7% at six months, compared to 5.5% with Forteo, and by 12.9% at 12 months, compared to 8.6% with Forteo. In April 2011, we began dosing patients in a pivotal, multinational Phase 3 study designed to show that BA058-SC prevents new vertebral fracture compared to placebo. We expect to report top-line 18-month fracture data from this Phase 3 study in the fourth quarter of 2014. We believe that BA058 has the following potential advantages over the current standard of care:

- > greater efficacy;
- > faster benefit for building bone;
- > shorter treatment duration;
- > less hypercalcemia;
- > no additional safety risks; and
- > no refrigeration required in use.

We are also developing BA058-TD, a short wear time, transdermal form of BA058 that is delivered using a microneedle patch technology from 3M Drug Delivery Systems, or 3M. We commenced a Phase 2 clinical study of BA058-TD in the third quarter of 2012, and expect top-line data from this study to be available in the third quarter of 2013. We believe BA058-TD may eliminate the need for daily injections, lead to better treatment compliance for patients and expand the existing market. We reported the following top-line results from a Phase 1b study in December 2011:

- > rapid release of BA058 from the microneedle patch;
- > peak transdermal drug levels consistent with BA058-SC;
- > faster time to peak concentration, and faster elimination in plasma, compared to BA058-SC;
- > increase in the bone-formation marker P1NP in serum after seven days of exposure, consistent with bone-building activity; and
- > identification of optimal wear time of five minutes or less, and effective sites of application.

We are also developing RAD1901, a selective estrogen receptor modulator, or SERM, for the treatment of vasomotor symptoms, commonly known as hot flashes, in women entering menopause, and RAD140, a selective androgen receptor modulator, or SARM, which is an orally active androgen agonist on muscle and bone and is a potential treatment for age-related muscle loss, frailty, weight loss associated with cancer, cachexia and osteoporosis.



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**OUR STRATEGY**

We plan to build a biopharmaceutical company focused on developing new therapeutics for osteoporosis and other women's health conditions by:

- > completing the pivotal Phase 3 study of BA058-SC for the treatment of osteoporosis and reporting top-line 18-month fracture data in the fourth quarter of 2014;
- > pursuing the clinical development of BA058-TD as a follow-on product for the treatment of osteoporosis;
- > seeking regulatory approval of BA058-SC and BA058-TD for the treatment of osteoporosis if the clinical trials for these product candidates are successful, initially in the United States and subsequently in Europe;
- > potentially collaborating with third parties for the worldwide commercialization of BA058 (except Japan);
- > pursuing the potential application of BA058 in the moderate osteoporosis market as well as the fracture healing market;
- > potentially collaborating with third parties for the further development and commercialization of RAD1901 and RAD140 on a worldwide basis; and
- > building a strong management team and board of directors with significant pharmaceutical development, regulatory and commercial experience.

**RISK FACTORS**

Investing in our common stock involves a high degree of risk. These risks are discussed more fully in the "Risk factors" section of this prospectus. In particular, these risks include:

- > We have a short operating history. We currently have no commercial products, and we have not received regulatory approval for, nor have we generated commercial revenue from, any of our product candidates. If we do not obtain the necessary United States or worldwide regulatory approvals to commercialize any product candidate, we will not be able to sell our product candidates.
- > Most of our product candidates are in early stages of clinical trials. We cannot predict with any certainty if or when we might submit a New Drug Application, or NDA, for regulatory approval for any of our product candidates or whether any such NDA will be accepted.
- > We have a history of net losses and expect to incur substantial losses and negative operating cash flow for the foreseeable future, and may never achieve or maintain profitability.
- > We are heavily dependent on the success of BA058-SC, and BA058-TD as a follow-on product, both of which are under clinical development. We cannot be certain that BA058-SC or BA058-TD will receive regulatory approval or be successfully commercialized even if we receive regulatory approval.
- > Clinical trials of our product candidates may not be successful. If we are unable to obtain required marketing approvals for, commercialize, obtain and maintain patent protection for or gain sufficient market acceptance by physicians, patients and healthcare payers of our product candidates, or experience significant delays in doing so, our business will be materially harmed and our ability to generate revenue will be materially impaired.

**OUR CORPORATE INFORMATION**

We were incorporated in Delaware on February 4, 2008 under the name MPM Acquisition Corp. In May 2011, we entered into a reverse merger transaction, or the Merger, with our predecessor, Radius Health, Inc., a Delaware corporation formed on October 3, 2003, or the Former Operating Company. Pursuant to the Merger, the Former Operating Company became a wholly-owned subsidiary of ours.

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Immediately following the Merger, we merged the Former Operating Company with and into us, and we assumed the business of the Former Operating Company and changed our name to "Radius Health, Inc."

As of June 30, 2012, we employed thirteen full-time employees and two part-time employees, three of whom held Ph.D. or M.D. degrees. Nine of our employees were engaged in research and development activities and six were engaged in support administration and finance. We intend to use clinical research organizations, or CROs, and third parties to perform our clinical studies and manufacturing.

Our executive offices are located at 201 Broadway, 6th Floor, Cambridge, MA 02139. Our telephone number is (617) 551-4700.

**CONFLICTS OF INTEREST**

Because one of our board members, Jonathan Fleming, is also a member of the board of managers of Leerink Swann LLC, one of the underwriters in this offering, a "conflict of interest" under FINRA Rule 5121 may be deemed to exist. Accordingly, this offer is being made in compliance with FINRA Rule 5121. FINRA Rule 5121 requires that a "qualified independent underwriter" participate in the preparation of this prospectus and the registration statement of which this prospectus is a part and exercise the usual standards of due diligence with respect thereto. UBS Securities LLC has assumed the responsibilities of acting as the qualified independent underwriter in this offering. See "Affiliations/conflicts of interest."

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## The offering

Common stock offered by us	shares
Common stock to be outstanding after the offering	shares
Over-allotment option	We have granted the underwriters a 30-day option to purchase up to an additional shares to cover over-allotments.
Use of proceeds	We estimate that our net proceeds from this offering will be approximately \$ million at an assumed public offering price of \$ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. We expect to use the net proceeds of this offering to fund the clinical development of our most advanced product candidates and for other general corporate purposes.
Risk factors	See "Risk factors" beginning on page 10 of this prospectus for a discussion of factors you should carefully consider before you decide to invest in our common stock.

Proposed NASDAQ Global Market symbol RDUS

The number of shares of our common stock outstanding after this offering is based on the number of shares of our common stock outstanding as of June 30, 2012 and excludes:

- > 3,937,386 shares of our common stock issuable upon the exercise of outstanding stock options at a weighted average exercise price of \$3.10 per share;
- > 803,032 shares of our common stock reserved for future issuance under our 2011 equity incentive plan;
- > 147,606 shares of our common stock issuable upon the exercise of outstanding warrants at a weighted average exercise price of \$8.15 per share; and
- > 2,448,340 shares of our common stock reserved for issuance in satisfaction of dividends accrued as of June 30, 2012 on our shares of series A-5 convertible preferred stock, which may be issued at any time following the listing of our common stock on the NASDAQ Global Market, and additional shares that will accrue quarterly based on the progress of certain preclinical and clinical trials conducted for us by Nordic Bioscience Clinical Development VII A/S, or Nordic, the holder of our series A-5 convertible preferred stock, and are issuable at a price per share equal to the greater of (1) \$8.142 or (2) the 20-day average closing trading price of our common stock as of two days prior to the date of accrual.

Except as otherwise indicated, all information in this prospectus reflects or assumes the following:

- > the automatic conversion of all outstanding shares of our convertible preferred stock into 20,754,880 shares of our common stock upon the listing of our common stock on the NASDAQ Global Market;
- > the issuance of 1,639,421 shares of our common stock to the holders of our series A-1, A-2 and A-3 convertible preferred stock upon the listing of our common stock on the NASDAQ Global Market in satisfaction of accumulated dividends, as required by the terms of the series A-1, A-2 and A-3 convertible preferred stock, assuming for this purpose that the listing of our common



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stock on the NASDAQ Global Market occurred on June 30, 2012, all of which is described more fully under the section of this prospectus entitled "Capitalization";

- > the amendment and restatement of our certificate of incorporation and the amendment and restatement of our bylaws upon the listing of our common stock on the NASDAQ Global Market;
- > the increase in the number of shares of our common stock reserved for future issuance under our amended 2011 equity incentive plan, which will become effective upon the listing of our common stock on the NASDAQ Global Market;
- > no issuance of the dividends accrued on our series A-5 convertible preferred stock described above;
- > no exercise of the outstanding options or warrants described above; and
- > no exercise of the underwriters' option to purchase up to an additional \_\_\_\_\_ shares of our common stock to cover over-allotments.

Certain of our existing stockholders and their affiliated entities have indicated an interest in purchasing an aggregate of up to approximately \$ \_\_\_\_\_ in shares of our common stock in this offering at the initial public offering price. Assuming an initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the price range listed on the cover page of this prospectus, these stockholders would purchase an aggregate of up to approximately \_\_\_\_\_ of the \_\_\_\_\_ shares in this offering based on these indications of interest. However, because indications of interest are not binding agreements or commitments to purchase, these stockholders may determine to purchase fewer shares than they indicate an interest in purchasing or not to purchase any shares in this offering. In addition, the underwriters could determine to sell fewer shares to these stockholders than the stockholders indicate an interest in purchasing or not to sell any shares to these stockholders.

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## Summary financial data

You should read the following summary financial data in conjunction with "Selected financial data," "Management's discussion and analysis of financial condition and results of operations" and our financial statements and related notes, all included elsewhere in this prospectus.

We derived the statements of operations data for the years ended December 31, 2009, 2010 and 2011 and the balance sheet data as of December 31, 2011 from our audited financial statements included elsewhere in this prospectus. We derived the statement of operations data for the six months ended June 30, 2011 and 2012 and the balance sheet data as of June 30, 2012 from our unaudited financial statements for period ended June 30, 2012 included elsewhere in this prospectus. Our historical results are not necessarily indicative of the results to be expected in the future.

SEC rules require that the most recently filed annual financial statements be recast in this prospectus to reflect any subsequent changes in accounting principles or presentation that are being applied retrospectively. As a result, we have recast certain financial information presented in our Annual Report on Form 10-K to reflect the adoption of Accounting Standards Update No. 2011-05, *Presentation of Comprehensive Income*. These changes were previously reflected in our most recent quarterly report on Form 10-Q. Except as related to the matters that have led to the recast financial information presented herein, the disclosures contained in our Annual Report on Form 10-K have not otherwise been updated from those disclosures contained in our 2011 Form 10-K.

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Statements of Operations and Comprehensive Loss Data:	Years ended December 31,			Six months ended June 30,	
	2011	2010	2009	2012	2011
(in thousands, except share and per share amounts)					
Revenue:					
Option fee revenue	\$	\$	\$ 1,616	\$	\$
Operating expenses:					
Research and development		36,179	11,692	14,519	24,366
General and administrative		5,330	3,630	2,668	4,291
Restructuring			217		
Loss from operations		(41,509)	(15,539)	(15,571)	(28,657)
Other income (expense), net		(236)	824	(7)	(1,184)
Interest income (expense), net		(731)	85	489	(992)
Net loss	\$	(42,476)	\$ (14,630)	\$ (15,089)	\$ (30,833)
Other comprehensive loss, net of tax:					
Unrealized gain (loss) from available-for-sale securities		8	(18)	(232)	5
Comprehensive loss	\$	(42,468)	\$ (14,648)	\$ (15,321)	\$ (30,828)
Earnings (loss) attributable to common stockholders basic and diluted	\$	253	\$ (26,773)	\$ (26,494)	\$ (37,643)
Earnings (loss) per share basic	\$	0.51	\$ (83.42)	\$ (82.68)	\$ (46.18)
Earnings (loss) per share diluted	\$	0.07	\$ (83.42)	\$ (82.68)	\$ (46.18)
Weighted average shares basic		499,944	320,942	320,424	815,053
Weighted average shares diluted		3,454,276	320,942	320,424	815,053
Pro forma earnings (loss) attributable to common stockholders basic and diluted <sup>(1)(2)</sup> (unaudited)	\$	18,461			\$ (30,833)
Pro forma earnings (loss) per share basic <sup>(1)</sup> (unaudited)	\$	1.24			\$ (1.38)
Pro forma earnings (loss) per share diluted <sup>(1)</sup> (unaudited)	\$	1.17			\$ (1.38)
Weighted-average common shares used in computing pro forma earnings per share basic <sup>(1)</sup> (unaudited)		14,848,565			22,373,458
Weighted-average common shares used in computing pro forma earnings per share diluted <sup>(1)</sup> (unaudited)		15,753,387			22,373,458

(1) *Unaudited pro forma basic and diluted earnings attributable to common stockholders and pro forma basic and diluted earnings per share are calculated after giving effect to the automatic conversion of all outstanding shares of our convertible preferred stock into shares of common stock, as if these conversions occurred at the beginning of the respective period, or their original issuance date, if later.*

(2) *Unaudited pro forma basic and diluted earnings attributable to common stockholders for the year ended December 31, 2011, is comprised of net loss and extinguishment of preferred stock, which are both included in basic and diluted earnings attributable to common stockholders. See Note 5, "Net loss per share," to our financial statements for the year ended December 31, 2011. Unaudited pro forma basic and diluted earnings attributable to common stockholders for the six months ended June 30, 2012 comprises net loss. See Note 4, "Net Income (Loss) Per Share," to our financial statements for the period ended June 30, 2012. Unaudited pro forma basic and diluted earnings, calculated using the if-converted method, excludes accretion of preferred stock and earnings attributable to participating preferred stockholders.*



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(3) *Unaudited basic and diluted weighted-average common shares used in computing pro forma earnings per share for the year ended December 31, 2011 are calculated assuming that the Former Operating Company's Series A, B and C convertible preferred stock was exchanged for our series A-2, A-3 and A-4 convertible preferred stock at the beginning of the respective period, that our series A-2, A-3 and A-4 convertible preferred stock was outstanding for the entire respective period and that the Former Operating Company's series A, B and C convertible preferred stock was not outstanding for any portion of the respective period. See Note 4, "Recapitalization," to our financial statements for the year ended December 31, 2011.*

Balance Sheet Data:	As of June 30, 2012		
	Actual	Pro forma(1)	Pro forma as adjusted(1)(2)
(unaudited, in thousands)			
Cash, cash equivalents and marketable securities	\$ 45,874	\$ 45,874	
Working capital	42,609	42,609	
Total assets	51,969	51,969	
Convertible preferred stock <sup>(3)</sup>	163,468		
Note payable, net of current portion and discount	17,083	17,083	
Total stockholders' (deficit) equity	(156,117)	7,351	

(1) *Gives effect to:*

- > *the automatic conversion of all outstanding shares of our convertible preferred stock as of June 30, 2012 into 20,754,880 shares of our common stock upon the listing of our common stock on the NASDAQ Global Market; and*
- > *the issuance of 1,639,421 shares of our common stock to the holders of our series A-1, A-2 and A-3 convertible preferred stock upon the listing of our common stock on the NASDAQ Global Market in satisfaction of accumulated dividends, as required by the terms of the series A-1, A-2 and A-3 convertible preferred stock, assuming for this purpose that the listing of our common stock on the NASDAQ Global Market occurred on June 30, 2012, all of which is described more fully under the section of this prospectus entitled "Capitalization."*

*The pro forma information above excludes 2,448,340 shares of our common stock reserved for issuance in satisfaction of dividends accrued as of June 30, 2012 on our shares of series A-5 convertible preferred stock, which may be issued at any time following the listing of our common stock on the NASDAQ Global Market, and additional shares that will accrue quarterly based on the progress of certain preclinical and clinical trials conducted for us by Nordic, the holder of our series A-5 convertible preferred stock, and are issuable at a price per share equal to the greater of (1) \$8.142 or (2) the 20-day average closing trading price of our common stock as of two days prior to the date of accrual.*

(2) *Gives further effect to our issuance and sale of \_\_\_\_\_ shares of our common stock in this offering at an assumed public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. Each \$1.00 increase or decrease in the assumed public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, would increase or decrease each of the pro forma as adjusted cash, cash equivalents and marketable securities, working capital, total assets and total stockholders' equity (deficit) by approximately \$ \_\_\_\_\_ million, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. Each increase or decrease of one million shares in the number of shares to be offered by us would increase or decrease each of the pro forma as adjusted cash, cash equivalents and marketable securities, working capital, total assets and total stockholders' equity (deficit) by approximately \$ \_\_\_\_\_ million, assuming that the public offering price is \$ \_\_\_\_\_ per share, the midpoint of the price range set forth on the cover page of this prospectus, and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. The pro forma as adjusted information discussed above is illustrative only and will adjust based on the actual public offering price and other terms of this offering.*

(3) *Consists of series A-1, A-2, A-3, A-4 and A-5 convertible preferred stock. See "Capitalization."*



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## Risk factors

*Investing in our common stock involves a high degree of risk. Before you decide to invest in our common stock, you should carefully consider the following risk factors, together with the other information contained in this prospectus, including our financial statements and the related notes and the information set forth under the heading "Management's discussion and analysis of financial condition and results of operations." Our business results are subject to the following risks, and if any of them occur, our business, financial condition and results of operations could be materially and adversely affected. In this case, the price of our common stock could decline and you could lose all or a part of your investment.*

### **RISKS RELATED TO OUR BUSINESS**

#### **Risks related to our financial position and need for capital**

##### **We are not currently profitable and may never become profitable.**

We have a history of net losses and expect to incur substantial losses and have negative operating cash flow for the foreseeable future, and may never achieve or maintain profitability. We had a net loss of \$30.8 million for the six months ended June 30, 2012, \$42.5 million for the year ended December 31, 2011 and \$14.6 million for the year ended December 31, 2010. As of June 30, 2012, we had an accumulated deficit of \$156.1 million. Even if we succeed in developing and commercializing one or more of our product candidates, we expect to incur substantial losses for the foreseeable future and may never become profitable. We also expect to continue to incur significant operating and capital expenditures and anticipate that our expenses will increase substantially in the foreseeable future as we:

- > continue to undertake preclinical development and clinical trials for product candidates;
- > seek regulatory approvals for product candidates;
- > implement additional internal systems and infrastructure; and
- > hire additional personnel.

We also expect to experience negative cash flow for the foreseeable future as we fund our operating losses and capital expenditures. As a result, we will need to generate significant revenues in order to achieve and maintain profitability. We may not be able to generate these revenues or achieve profitability in the future. Accordingly, unless and until we generate revenues and become profitable, we will need to raise additional capital to continue to operate our business, including after the consummation of this offering. Our failure to achieve or maintain profitability or to raise additional capital could negatively impact the value of our securities.

##### **We currently have no product revenues and will need to raise additional capital to operate our business.**

To date, we have generated no product revenues. Until, and unless, we receive approval from the U.S. Food and Drug Administration, or the FDA, and other regulatory authorities for our product candidates, we will not be permitted to sell our drugs and will not have product revenues. Currently, our only product candidates are BA058, RAD1901 and RAD140, and none of these product candidates is approved by the FDA for sale. Therefore, for the foreseeable future, we will have to fund our operations and capital expenditures from cash on hand, borrowings, licensing fees and grants and potentially, future offerings of our securities. We believe that the proceeds from this offering, together with our existing resources, will be sufficient to fund our planned operations until the end of the first

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quarter of 2014. We have based this estimate on assumptions that may prove to be wrong, and we could use our available capital resources sooner than we currently expect. Our future capital requirements will depend on many factors, including the scope and progress made in our research and development activities and our clinical studies.

**Our credit facility imposes significant restrictions on our business, and if we default on our obligations, the lenders would have a right to foreclose on substantially all our assets.**

In May 2011, we entered into our \$25.0 million credit facility with General Electric Capital Corporation, or GECC, as agent and lender, and Oxford Finance LLC, as lender. We drew \$12.5 million under our credit facility during 2011 and we drew the remaining \$12.5 million on May 29, 2012. Our credit facility contains a number of covenants that impose significant operating and financial restrictions on us. These covenants limit our ability to:

- > dispose of our business or certain assets;
- > change our business, management, ownership or business locations;
- > incur additional debt or liens;
- > make certain investments or declare dividends;
- > acquire or merge with another entity for consideration in excess of an allowable amount;
- > engage in transactions with affiliates; or
- > encumber our intellectual property.

Our credit facility may limit our ability to finance future operations or capital needs or to engage in, expand or pursue our business activities. It may also prevent us from engaging in activities that could be beneficial to our business and our stockholders unless we repay the outstanding debt, which may not be desirable or possible.

We have pledged substantially all of our assets other than our intellectual property to secure our obligations under our credit facility. If we default on our obligations and are unable to obtain a waiver for such a default, the lenders would have a right to accelerate the debt and terminate all commitments under our credit facility. They would also have the right to foreclose on the pledged assets, including our cash and cash equivalents and the proceeds from this offering. Any such action on the part of lenders against us would significantly harm our business and our ability to operate.

**We will need to seek additional sources of financing, which may not be available on favorable terms, if at all.**

If we do not succeed in the timely raising of additional funds on acceptable terms, we may be unable to complete planned preclinical and clinical trials or obtain approval of any product candidates from the FDA and other regulatory authorities. In addition, we could be forced to discontinue product development, reduce or forego sales and marketing efforts and forego attractive business opportunities. Any additional sources of financing will likely involve the issuance of additional equity securities, which will have a dilutive effect on stockholders.

**Raising additional capital may cause dilution to our existing stockholders, restrict our operations or require us to relinquish rights to our technologies or product candidates.**

Until such time, if ever, as we can generate substantial product revenues, we expect to finance our cash needs through a combination of equity offerings, debt financings, collaborations, strategic alliances,



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licensing arrangements and other marketing and distribution arrangements. We do not have any committed external source of funds. To the extent that we raise additional capital through the sale of equity or convertible debt securities, your ownership interest will be diluted, and the terms of these securities may include liquidation or other preferences that adversely affect your rights as a stockholder. Debt financing, if available, may involve agreements that include covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures or declaring dividends. If we raise additional funds through marketing and distribution arrangements or other collaborations, strategic alliances or licensing arrangements with third parties, we may have to relinquish valuable rights to our technologies, future revenue streams, research programs or product candidates or to grant licenses on terms that may not be favorable to us. If we are unable to raise additional funds through equity or debt financings when needed, we may be required to delay, limit, reduce or terminate our product development or commercialization efforts or grant rights to develop and market product candidates that we would otherwise prefer to develop and market ourselves.

**We are a company with a limited operating history upon which to base an investment decision.**

We are a company with a limited operating history and have not demonstrated an ability to perform the functions necessary for the successful commercialization of any product candidates. The successful commercialization of any product candidates will require us to perform a variety of functions, including:

- > continuing to undertake preclinical development and clinical trials;
- > participating in regulatory approval processes;
- > formulating and manufacturing products; and
- > conducting sales and marketing activities.

Our operations have been limited to organizing and staffing our company, acquiring, developing and securing our proprietary technology and undertaking preclinical and clinical trials of our product candidates. These operations provide a limited basis for you to assess our ability to commercialize our product candidates and the advisability of investing further in our securities.

**Our financial results may fluctuate from quarter to quarter, which makes our results difficult to predict and could cause our results to fall short of expectations.**

Our financial results may fluctuate as a result of a number of factors, many of which are outside of our control. For these reasons, comparing our financial results on a period-to-period basis may not be meaningful, and you should not rely on our past results as an indication of our future performance. Our revenues, if any, may fluctuate from quarter to quarter and our future quarterly and annual expenses as a percentage of our revenues may be significantly different from those we have recorded in the past or which we expect for the future. Our financial results in some quarters may fall below expectations. Any of these events as well as the various risk factors listed in this section could adversely affect our financial results and cause our stock price to fall.

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**Risks related to the discovery, development and commercialization of our product candidates**

**We are heavily dependent on the success of BA058-SC, and BA058-TD as a follow-on product, both of which are under clinical development. We cannot be certain that BA058-SC or BA058-TD will receive regulatory approval or be successfully commercialized even if we receive regulatory approval.**

BA058-SC is our only product candidate in late stage clinical development, and our business currently depends heavily on its successful development, regulatory approval and commercialization. We have no drug products for sale currently and may never be able to develop marketable drug products. The research, testing, manufacturing, labeling, approval, sale, marketing and distribution of drug products are subject to extensive regulation by the FDA and other regulatory authorities in the United States and other countries, which regulations differ from country to country. We are not permitted to market BA058-SC in the United States unless and until we receive approval of an NDA from the FDA, or in any foreign countries unless and until we receive the requisite approval from regulatory authorities in such countries. In addition, the approval of BA058-TD as a follow-on product is dependent on the earlier approval of BA058-SC. We have not submitted an NDA to the FDA or comparable applications to other regulatory authorities. Obtaining approval of an NDA is an extensive, lengthy, expensive and uncertain process, and any approval of BA058-SC may be delayed, limited or denied for many reasons, including:

- > we may experience delays in the enrollment of patients in our ongoing Phase 3 clinical trial;
- > we may not be able to demonstrate that BA058 is safe and effective as a treatment for osteoporosis to the satisfaction of the FDA;
- > the results of our clinical studies may not meet the level of statistical or clinical significance required by the FDA for marketing approval;
- > the FDA may disagree with the number, design, size, conduct or implementation of our clinical studies;
- > the CRO that we retain to conduct clinical studies may take actions outside of our control that materially adversely impact our clinical studies;
- > the FDA may not find the data from preclinical studies and clinical studies sufficient to demonstrate that BA058's clinical and other benefits outweigh its safety risks;
- > the FDA may disagree with our interpretation of data from our preclinical studies and clinical studies or may require that we conduct additional studies;
- > the FDA may not accept data generated at our clinical study sites;
- > if our NDA is reviewed by an advisory committee, the FDA may have difficulties scheduling an advisory committee meeting in a timely manner or the advisory committee may recommend against approval of our application or may recommend that the FDA require, as a condition of approval, additional preclinical studies or clinical studies, limitations on approved labeling or distribution and use restrictions;
- > the FDA may require development of a Risk Evaluation and Mitigation Strategy, or REMS, as a condition of approval; or
- > the FDA may identify deficiencies in the manufacturing processes or facilities of our third-party manufacturers.



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In addition, the FDA may change its approval policies or adopt new regulations. For example, on February 15, 2012, we received a letter from the FDA stating that, after internal consideration, the agency believes that a minimum of 24-month fracture data are necessary for approval of new products for the treatment of postmenopausal osteoporosis, and our ongoing BA058-SC pivotal Phase 3 clinical study is designed to produce fracture data based on an 18-month primary endpoint. Based on our discussions with the FDA, we believe that continued use of the 18-month primary endpoint will be acceptable, provided that our NDA includes the 24-month fracture data derived from a 6-month extension of the BA058 80 µg and placebo groups in our Phase 3 study that will receive daily oral doses of alendronate (generic Fosamax®) or other standard of care for osteoporosis management. We plan to file the NDA with the 18-month fracture data and supplementally provide the 24-month fracture data, when available. We cannot be certain that the FDA will not change this approval policy again, or adopt other approval policies or regulations that adversely affect any NDA that we may submit.

Before we submit an NDA to the FDA for BA058 as a treatment for osteoporosis, we must complete several additional studies, including, but not limited to, our pivotal Phase 3 study based upon 18-month fracture data, a thorough QT Phase 1 study, a Phase 1 pharmacokinetic, or PK, study in renal patients, a Phase 1 PK study in hepatic patients, a Phase 1 absolute bioavailability PK study, a carcinogenicity study in rats, and bone quality studies in rats and monkeys. We have not commenced all of these required studies and the results of these studies will have an important bearing on the approval of BA058. In addition to fracture and BMD, our pivotal Phase 3 study will measure a number of other potential safety indicators, including anti-BA058 antibodies which will have an important bearing on the approval of BA058. At an interim preliminary analysis of histopathology of pre-terminal rats in our rat carcinogenicity study, which includes BA058 and hPTH(1-34), a daily subcutaneous injection of human parathyroid hormone as a positive control, we have observed osteosarcomas in both the BA058 and hPTH(1-34) treated groups. The final results from the rat carcinogenicity study may show that BA058 dosing results in more osteosarcomas than PTH, at similar exposure multiples to the human therapeutic dose, which may have a material adverse bearing on approval of BA058.

**If we experience delays in the enrollment of patients in our Phase 3 clinical trial of BA058-SC or any other clinical trial, our receipt of necessary regulatory approvals could be delayed or prevented.**

We may not be able to initiate or continue clinical trials for some of our product candidates if we are unable to locate and enroll a sufficient number of eligible patients to participate in these trials as required by the FDA or other regulatory authorities. If we do not enroll patients in our Phase 3 clinical trial of BA058-SC at the rate that we expect, we will not be able to complete the trial in a timely manner and may be required to incur additional expenses in order to seek to accelerate the rate of patient enrollment. In addition, many of our competitors have ongoing clinical trials for product candidates that could be competitive with our product candidates, and patients who would otherwise be eligible for our clinical trials may instead enroll in clinical trials of our competitors' product candidates.

Enrollment delays in our clinical trials may result in increased development costs for our product candidates, which would cause the value of the company to decline and limit our ability to obtain additional financing. Our inability to enroll a sufficient number of patients for any of our current or future clinical trials would result in significant delays or may require us to abandon one or more clinical trials altogether.

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**If we do not obtain the necessary United States or foreign regulatory approvals to commercialize any product candidate, we will not be able to sell our product candidates.**

We cannot assure you that we will receive the approvals necessary to commercialize any of our product candidates, including BA058, RAD1901 and RAD140, or any product candidate we acquire or develop in the future. We will need FDA approval to commercialize our product candidates in the United States and approvals from the FDA-equivalent regulatory authorities in foreign jurisdictions to commercialize our product candidates in those jurisdictions. In order to obtain FDA approval of any product candidate, we must submit to the FDA an NDA demonstrating that the product candidate is safe for humans and effective for its intended use. This demonstration requires significant research and animal tests, which are referred to as preclinical studies, as well as human tests, which are referred to as clinical trials. Satisfaction of the FDA's regulatory requirements typically takes many years, depends upon the type, complexity and novelty of the product candidate and requires substantial resources for research, development and testing. We cannot predict whether our research and clinical approaches will result in drugs that the FDA considers safe for humans and effective for indicated uses. The FDA has substantial discretion in the drug approval process and may require us to conduct additional preclinical and clinical testing or to perform post-marketing studies. The approval process may also be delayed by changes in government regulation, future legislation or administrative action or changes in FDA policy that occur prior to or during its regulatory review, such as the request we received from the FDA with respect to providing a minimum of 24-month fracture data for approval of BA058. Delays in obtaining regulatory approvals may:

- > delay commercialization of, and our ability to derive product revenues from, our product candidates;
- > impose costly procedures on us; and
- > diminish any competitive advantages that we may otherwise enjoy.

Even if we comply with all FDA requests, the FDA may ultimately reject one or more of our NDAs. We may never obtain regulatory clearance for any of our product candidates. Failure to obtain FDA approval of any of our product candidates will severely undermine our business by leaving us without a saleable product, and therefore without any source of revenues, until another product candidate can be developed. There is no guarantee that we will ever be able to develop or acquire any product candidate.

In foreign jurisdictions, we must receive approval from the appropriate regulatory authorities before we can commercialize any drugs. Foreign regulatory approval processes generally include all of the risks associated with the FDA approval procedures described above. We cannot assure you that we will receive the approvals necessary to commercialize any of our product candidates for sale outside the United States.

**Most of our product candidates are in early stages of clinical trials.**

Except for BA058, each of our other product candidates, which are RAD1901 and RAD140, is in early stages of development and requires extensive preclinical and clinical testing. We cannot predict with any certainty if or when we might submit an NDA for regulatory approval for any of our product candidates or whether any such NDA will be accepted.

**Clinical trials are very expensive, time-consuming and difficult to design and implement.**

Human clinical trials are very expensive and difficult to design and implement, in part because they are subject to rigorous regulatory requirements. A substantial portion of our BA058 development costs are

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denominated in euro and any adverse movement in the dollar/euro exchange rate will result in increased costs and require us to raise additional capital to complete the development of our products. The clinical trial process is also time consuming. We estimate that clinical trials of BA058-SC will take several additional years to complete. Furthermore, failure can occur at any stage of the trials, and we could encounter problems that cause us to abandon or repeat clinical trials. The commencement and completion of clinical trials may be delayed by several factors, including:

- > changes in government regulation, administrative action or changes in FDA policy with respect to clinical trials that change the requirements for approval;
- > unforeseen safety issues;
- > determination of dosing issues;
- > lack of effectiveness during clinical trials;
- > slower than expected rates of patient recruitment and enrollment;
- > inability to monitor patients adequately during or after treatment; and
- > inability or unwillingness of medical investigators to follow our clinical protocols.

In addition, we, the FDA, or other regulatory authorities and ethics committees with jurisdiction over our studies may suspend our clinical trials at any time if it appears that we are exposing participants to unacceptable health risks or if the FDA or other authorities find deficiencies in our regulatory submissions or the conduct of these trials. Therefore, we cannot predict with any certainty the schedule for existing or future clinical trials.

**The results of our clinical trials may not support our product candidate claims.**

Even if our clinical trials are completed as planned, we cannot be certain that the results will support our product candidate claims. Success in preclinical testing and early clinical trials does not ensure that later clinical trials will be successful, and we cannot be sure that the results of later clinical trials will replicate the results of prior clinical trials and preclinical testing. For example, our Phase 3 study of BA058-SC for fracture prevention may not replicate the positive efficacy results for BMD from our Phase 2 study. The clinical trial process may fail to demonstrate that our product candidates are safe for humans and effective for indicated uses. This failure would cause us to abandon a product candidate and may delay development of other product candidates. Any delay in, or termination of, our clinical trials will delay the filing of our NDAs with the FDA and, ultimately, our ability to commercialize our product candidates and generate product revenues. In addition, our clinical trials to date have involved small patient populations. Because of the small sample sizes, the results of these clinical trials may not be indicative of future results.

**Any product candidate for which we obtain marketing approval could be subject to restrictions or withdrawal from the market and we may be subject to penalties if we fail to comply with regulatory requirements or if we experience unanticipated problems with our products, when and if any of them are approved.**

Any product candidate for which we obtain marketing approval, along with the manufacturing processes, post-approval clinical data, labeling, advertising and promotional activities for such product, will be subject to continual requirements of and review by the FDA and other regulatory authorities. These requirements include submissions of safety and other post-marketing information and reports, registration and listing requirements, current good manufacturing practices, or cGMP, requirements relating to quality control, quality assurance and corresponding maintenance of records and



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documents, requirements regarding the distribution of samples to physicians and recordkeeping. Even if we obtain marketing approval of a product candidate, the approval may be subject to limitations on the indicated uses for which the product may be marketed or to the conditions of approval, or contain requirements for costly post-marketing testing and surveillance to monitor the safety or efficacy of the product. The FDA closely regulates the post-approval marketing and promotion of drugs to ensure drugs are marketed only for the approved indications and in accordance with the provisions of the approved labeling. The FDA imposes stringent restrictions on manufacturers' communications regarding off-label use and, if we do not market our products for their approved indications, we may be subject to enforcement action for off-label marketing.

In addition, later discovery of previously unknown problems with our products, manufacturers or manufacturing processes, or failure to comply with regulatory requirements, may yield various results, including:

- > restrictions on such products, manufacturers or manufacturing processes;
- > restrictions on the labeling or marketing of a product;
- > restrictions on product distribution or use;
- > requirements to conduct post-marketing clinical trials;
- > warning or untitled letters;
- > withdrawal of the products from the market;
- > refusal to approve pending applications or supplements to approved applications that we submit;
- > voluntary or mandatory recall of products and related publicity requirements;
- > fines, restitution or disgorgement of profits or revenue;
- > suspension or withdrawal of marketing approvals;
- > refusal to permit the import or export of our products;
- > product seizure; or
- > injunctions or the imposition of civil or criminal penalties.

**Physicians and patients may not accept and use our drugs.**

Even if the FDA approves one or more of our product candidates, physicians and patients may not accept and use them. Acceptance and use of any of our products will depend upon a number of factors including:

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perceptions by members of the healthcare community, including physicians, about the safety and effectiveness of our drug;

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cost-effectiveness of our product relative to competing products;

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availability of coverage and reimbursement for our product from government or other healthcare payers; and

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effectiveness of marketing and distribution efforts by us and our licensees and distributors, if any.

Because we expect sales of our current product candidates, if approved, to generate substantially all of our product revenues for the foreseeable future, the failure of these drugs to gain market acceptance would harm our business and would require us to seek additional financing.

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**We may expend our limited resources to pursue a particular product candidate or indication and fail to capitalize on product candidates or indications that may be more profitable or for which there is a greater likelihood of success.**

Because we have limited financial and managerial resources, we focus on research programs and product candidates that we identify for specific indications. As a result, we may forego or delay pursuit of opportunities with other product candidates or for other indications that later prove to have greater commercial potential. Our resource allocation decisions may cause us to fail to capitalize on viable commercial products or profitable market opportunities. Our spending on current and future research and development programs and product candidates for specific indications may not yield any commercially viable products. If we do not accurately evaluate the commercial potential or target market for a particular product candidate, we may relinquish valuable rights to that product candidate through collaboration, licensing or other royalty arrangements in cases in which it would have been more advantageous for us to retain sole development and commercialization rights to such product candidate.

**If serious adverse or inappropriate side effects are identified during the development of our product candidates, we may need to abandon our development of some of our product candidates.**

All of our product candidates are still in preclinical or clinical development. It is impossible to predict when or if any of our product candidates will prove effective or safe in humans or will receive regulatory approval, if ever. If our product candidates result in undesirable side effects or have characteristics that are unexpected, we may need to abandon their development.

**Risks related to our dependence on third parties**

**Our drug development program depends upon third-party researchers, investigators and collaborators who are outside our control.**

We depend upon independent researchers, investigators and collaborators, such as Nordic, to conduct our preclinical and clinical trials under agreements with us. These third parties are not our employees and we cannot control the amount or timing of resources that they devote to our programs. These third parties may not assign as great a priority to our programs or pursue them as diligently as we would if we were undertaking such programs ourselves. If outside collaborators fail to devote sufficient time and resources to our drug-development programs, or if their performance is substandard, the approval of our FDA applications, if any, and our introduction of new drugs, if any, will be delayed. These collaborators may also have relationships with other commercial entities, some of whom may compete with us. If our collaborators assist competitors at our expense, our competitive position would be harmed.

**If a regulatory or governmental authority determines that a financial interest in the outcome of the Phase 3 study of BA058-SC by any of the entities managing our Phase 3 study affected the reliability of the data from the Phase 3 study, our ability to use the data for our planned regulatory submissions could be compromised, which could harm our business and the value of our common stock.**

The Phase 3 study of BA058-SC is being managed by Nordic at certain clinical sites operated by the Center for Clinical and Basic Research, or CCBR, a leading global CRO with extensive experience in global osteoporosis registration studies. Nordic controls, and holds an ownership interest in, the local CCBR clinical sites. The clinical trial investigators are employees of CCBR and may also hold an equity interest in the local CCBR clinical trials.

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In consideration of Nordic's management of this Phase 3 study, we agreed to make various cash payments to Nordic denominated in both euros and U.S. dollars over the course of the Phase 3 study equal to a total of up to both €41.2 million (\$52.1 million) and \$3.2 million. We also agreed to sell shares of capital stock to Nordic that were exchanged in the Merger for 6,443 shares of our series A-5 convertible preferred stock for proceeds of approximately \$525,000. These shares of our series A-5 convertible preferred stock will automatically convert into 64,430 shares of our common stock upon the listing of our common stock on the NASDAQ Global Market. Pursuant to the terms of our agreements with Nordic, we will also issue to Nordic additional shares of common stock with an aggregate value of up to €36.8 million (\$46.6 million). These additional shares of common stock accrue at a quarterly rate based on the progress of the Phase 3 clinical study and are issuable at a price per share equal to the greater of \$8.142 or the 20-day average of the closing price of our common stock at any time after our common stock is publicly traded.

The fair market value of our common stock may be subject to wide fluctuations in response to various factors, many of which are beyond our control, including any negative outcome of the Phase 3 study. Accordingly, the shares of common stock that we will issue to Nordic in consideration of Nordic's management of the Phase 3 study may be less than the full value contemplated under our agreements with Nordic. As a result, the total consideration that Nordic will receive in cash and common stock may be viewed to be below the market price paid by other companies for comparable clinical trial services.

Because of the potential decrease in the value of the common stock issuable to Nordic upon a negative outcome of the Phase 3 study, Nordic, CCBR and the clinical trial investigators may be viewed as having a financial interest in the outcome of the study. We have obtained written acknowledgments from the clinical trial investigators certifying that they have no financial interest in the outcome of the Phase 3 study. However, if the FDA, EMA or any other similar regulatory or governmental authority determines that Nordic, CCBR or the clinical trial investigators have a financial interest that affected the reliability of the data from the Phase 3 study, we could be subject to additional regulatory scrutiny and the utility of the Phase 3 data for purposes of our planned regulatory submissions could be compromised, which could have a material adverse effect on our business and the value of our common stock.

**We will rely exclusively on third parties to formulate and manufacture our product candidates.**

We have no experience in drug formulation or manufacturing and do not intend to establish our own manufacturing facilities. We lack the resources and expertise to formulate or manufacture our own product candidates. We have entered into agreements with contract manufacturers to manufacture BA058-SC for use in clinical trial activities. These contract manufacturers are currently our only source for the production and formulation of BA058. We currently do not have sufficient clinical supplies of BA058 to complete the Phase 3 study for BA058-SC but believe that our contract manufacturers will be able to produce sufficient supply of BA058 to complete all of the planned BA058 clinical studies. However, if our contract manufacturers are unable to produce, in a timely manner, adequate clinical supplies to meet the needs of our clinical studies, we would be required to seek new contract manufacturers that may require us to modify our finished product formulation and modify or terminate our clinical studies for BA058. Any modification of our finished product or modification or termination of our Phase 3 clinical study could adversely affect our ability to obtain necessary regulatory approvals and significantly delay or prevent the commercial launch of the product, which would materially harm our business and impair our ability to raise capital.

We depend on a number of single source contract manufacturers to supply key components of BA058. For example, we depend on Lonza Group Ltd., or Lonza, which produces supplies of bulk drug

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product of BA058 to support BA058-SC and BA058-TD clinical studies and potential commercial launch. We also depend on Beaufort Ipsen Industrie SAS and its subcontractor Vetter Pharma Fertigung GmbH & Co, or Vetter, for the production of finished supplies of BA058-SC and we depend on 3M for the production of BA058-TD. Because of our dependence on Vetter for the "fill and finish" part of the manufacturing process for BA058-SC, we are subject to the risk that Vetter may not have the capacity from time to time to produce sufficient quantities of BA058 to meet the needs of our clinical studies or be able to scale to commercial production of BA058. Because the manufacturing process for BA058-TD requires the use of 3M's proprietary technology, 3M is our sole source for finished supplies of BA058-TD.

While we are currently in discussions, to date, neither we nor our collaborators have entered into a long-term agreement with Lonza, Vetter or 3M, each of whom currently produce BA058 or related components on a purchase order basis for us. Accordingly, Lonza, Vetter and 3M could terminate their relationship with us at any time and for any reason. We may not be able to negotiate long-term agreements on acceptable terms, or at all. If our relationship with any of these contract manufacturers is terminated, or if they are unable to produce BA058 or related components in required quantities, on a timely basis or at all, or if we are forced to accept unfavorable terms for our future relationship, our business and financial condition would be materially harmed. If any of our current product candidates or any product candidates we may develop or acquire in the future receive FDA approval, we will rely on one or more third-party contractors to manufacture our drugs or related components. Our anticipated future reliance on a limited number of third-party manufacturers exposes us to the following risks:

- > We may be unable to identify manufacturers on acceptable terms, or at all, because the number of potential manufacturers is limited and the FDA must approve any replacement contractor. This approval would require new testing and compliance inspections. In addition, a new manufacturer would have to be educated in, or develop substantially equivalent processes for, production of our products after receipt of FDA approval, if any.
- > Our third-party manufacturers might be unable to formulate and manufacture our drugs or related components in the volume and of the quality required to meet our clinical needs and commercial needs, if any.
- > Our future contract manufacturers may not perform as agreed or may not remain in the contract manufacturing business for the time required to supply our clinical trials or to successfully produce, store and distribute our products.
- > Drug manufacturers are subject to ongoing periodic unannounced inspection by the FDA, the Drug Enforcement Administration, and corresponding state agencies to ensure strict compliance with good manufacturing practice, or GMP, and other government regulations and corresponding foreign standards. We do not have control over third-party manufacturers' compliance with these regulations and standards.
- > If any third-party manufacturer makes improvements in the manufacturing process for our products, we may not own, or may have to share, the intellectual property rights to the innovation.

Each of these risks could delay our clinical trials, the approval, if any, of our product candidates by the FDA or the commercialization of our product candidates or result in higher costs or deprive us of potential product revenues.

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**If we are not able to establish additional collaborations, we may have to alter our development plans.**

Our product development programs and the potential commercialization of our product candidates will require substantial additional cash to fund expenses. For some of our product candidates, we may decide to collaborate with pharmaceutical and biotechnology companies for the development and potential commercialization of those product candidates.

We face significant competition in seeking appropriate collaborators. Collaborations are complex and time-consuming to negotiate and document. We may also be restricted under existing collaboration agreements from entering into agreements on certain terms with other potential collaborators. We may not be able to negotiate collaborations on acceptable terms, or at all. If that were to occur, we may have to curtail the development of a particular product candidate, reduce or delay its development program or one or more of our other development programs, delay its potential commercialization or reduce the scope of our sales or marketing activities, or increase our expenditures and undertake development or commercialization activities at our own expense. If we elect to increase our expenditures to fund development or commercialization activities on our own, we may need to obtain additional capital, which may not be available to us on acceptable terms or at all. If we do not have sufficient funds, we will not be able to bring our product candidates to market and generate product revenue.

**Risks related to marketing and sale of our products**

**We have no experience selling, marketing or distributing products and no internal capability to do so.**

We currently have no sales, marketing or distribution capabilities. We do not anticipate having the resources in the foreseeable future to allocate to the sales and marketing of our proposed products. Our future success depends, in part, on our ability to enter into and maintain collaborative relationships for such capabilities, the collaborators' strategic interest in the products under development and such collaborators' ability to successfully market and sell any such products. We intend to pursue collaborative arrangements regarding the sales and marketing of our products. However, there can be no assurance that we will be able to establish or maintain such collaborative arrangements, or if we are able to do so, that our collaborators will have effective sales forces. To the extent that we decide not to, or are unable to, enter into collaborative arrangements with respect to the sales and marketing of our proposed products, significant capital expenditures, management resources and time will be required to establish and develop an in-house marketing and sales force with technical expertise. There can also be no assurance that we will be able to establish or maintain relationships with third-party collaborators or develop in-house sales and distribution capabilities. To the extent that we depend on third parties for marketing and distribution, any revenues we receive will depend upon the efforts of such third parties, and there can be no assurance that such efforts will be successful. In addition, there can also be no assurance that we will be able to market and sell our products in the United States or overseas.

**If we cannot compete successfully for market share against other drug companies, we may not achieve sufficient product revenues and our business will suffer.**

The market for our product candidates is characterized by intense competition and rapid technological advances. If any of our product candidates receives FDA approval, it will compete with a number of existing and future drugs and therapies developed, manufactured and marketed by others. If we fail to develop BA058-TD, our commercial opportunity for BA058 will be limited. Existing or future competing products may provide greater therapeutic convenience or clinical or other benefits for a specific indication than our products, or may offer comparable performance at a lower cost. If our

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products fail to capture and maintain market share, we may not achieve sufficient product revenues and our business will suffer.

We will compete against fully integrated pharmaceutical companies and smaller companies that are collaborating with larger pharmaceutical companies, academic institutions, government agencies and other public and private research organizations. Many of these competitors have compounds already approved or in development. In addition, many of these competitors, either alone or together with their collaborative partners, operate larger research and development programs or have substantially greater financial resources than we do, as well as significantly greater experience in:

- > developing drugs;
- > undertaking preclinical testing and human clinical trials;
- > obtaining FDA and other regulatory approvals of drugs;
- > formulating and manufacturing drugs; and
- > launching, marketing and selling drugs.

**Developments by competitors may render our products or technologies obsolete or non-competitive.**

The biotechnology and pharmaceutical industries are intensely competitive and subject to rapid and significant technological change. Some of the drugs that we are attempting to develop, such as BA058, RAD1901 and RAD140 will have to compete with existing therapies. In addition, a large number of companies are pursuing the development of pharmaceuticals that target the same diseases and conditions that we are targeting. We face competition from pharmaceutical and biotechnology companies in the United States and abroad. In addition, companies pursuing different but related fields represent substantial competition. Many of these organizations competing with us have substantially greater capital resources, larger research and development staffs and facilities, longer drug development history in obtaining regulatory approvals and greater manufacturing and marketing capabilities than we do. These organizations also compete with us to attract qualified personnel and parties for acquisitions, joint ventures or other collaborations, and therefore, we may not be able to hire or retain qualified personnel to run all facets of our business.

**Our ability to generate product revenues will be diminished if our drugs sell for inadequate prices or patients are unable to obtain adequate levels of reimbursement.**

Our ability to commercialize our drugs, alone or with collaborators, will depend in part on the extent to which coverage and reimbursement will be available from:

- > government and health administration authorities;
- > private health maintenance organizations and health insurers; and
- > other healthcare payers.

Significant uncertainty exists as to the reimbursement status of newly approved healthcare products. Healthcare payers, including Medicare, are challenging the prices charged for medical products and services. Government and other healthcare payers increasingly attempt to contain healthcare costs by limiting both coverage and the level of reimbursement for drugs. Even if one of our product candidates is approved by the FDA, insurance coverage may not be available, and reimbursement levels may be inadequate, to cover such drug. If government and other healthcare payers do not provide adequate coverage and reimbursement levels for one of our product candidates, once approved, market acceptance of such product could be reduced.



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**We may incur substantial liabilities and may be required to limit commercialization of our products in response to product liability lawsuits.**

The testing and marketing of medical products entail an inherent risk of product liability. If we cannot successfully defend ourselves against product liability claims, we may incur substantial liabilities or be required to limit commercialization of our products. Our inability to obtain sufficient product liability insurance at an acceptable cost to protect against potential product liability claims could prevent or inhibit the commercialization of pharmaceutical products we develop, alone or with collaborators.

**Risks related to our intellectual property**

**If we fail to comply with our obligations in our intellectual property licenses with third parties, we could lose license rights that are important to our business.**

We are a party to a number of intellectual property license agreements with third parties and expect to enter into additional license agreements in the future. Our existing license agreements impose, and we expect that any future license agreements will impose, various diligence, milestone payment, royalty, insurance and other obligations on us. If we fail to comply with these obligations, our licensors may have the right to terminate these agreements, in which event we might not be able to develop and market any product that is covered by these agreements. Termination of these licenses or reduction or elimination of our licensed rights may result in our having to negotiate new or reinstated licenses with less favorable terms. The occurrence of such events could materially harm our business.

**If our efforts to protect our intellectual property related to BA058, RAD1901 and/or RAD140 fail to adequately protect these assets, we may suffer the loss of the ability to license or successfully commercialize one or more of these candidates.**

Our commercial success is significantly dependent on intellectual property related to our product portfolio. We are either the licensee or assignee of numerous issued and pending patent applications that cover various aspects of our assets, including BA058, RAD1901 and RAD140.

Patents covering BA058 as a composition of matter have been issued in the United States (US Patent No. 5,969,095), Europe and several additional countries. Because the BA058 composition of matter patent was filed in 1996, it is expected to have a normal expiration in approximately 2016 in the United States (this date does not include the possibility of Hatch-Waxman patent term extension which could extend the expiration in the United States into the first quarter of 2021 if an application for extension is made and the maximum extension is granted by the United States Patent and Trademark Office, or USPTO) and additional countries where it has issued.

We and Ipsen Pharma SAS, or Ipsen, are also co-assignees to US Patent No. 7,803,770 that we believe provides exclusivity until 2028 in the United States (absent any Hatch-Waxman patent term extensions) for the method of treating osteoporosis with the intended therapeutic dose for BA058-SC. We and Ipsen are also co-assignees to US Patent No. 8,148,333 that we believe provides exclusivity until 2027 in the United States (absent any Hatch-Waxman patent term extensions) for the intended therapeutic formulation for BA058-SC.

We and 3M are co-assignees to an international patent application and a corresponding U.S. patent application filed in 2012 (claiming priority to 2011) which cover various aspects of BA058 for microneedle application. Any issued claims resulting from these applications will expire no earlier than 2032. However, pending patent applications in the United States and elsewhere may not issue since the interpretation of the legal requirements of patentability in view of claimed inventions are not always predictable. Additional intellectual property covering BA058-TD technology exists in the form of proprietary information contained by trade secrets. These can be accidentally disclosed to,

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independently derived by or misappropriated by competitors, possibly reducing or eliminating the exclusivity advantages of this form of intellectual property, thereby allowing those competitors more rapid entry into the marketplace with a competitive product thus reducing our marketing advantage of BA058-TD. In addition, trade secrets may in some instances become publicly available required disclosures in regulatory files. Alternatively, competitors may sometimes reverse engineer a product once it becomes available on the market. Even where a competitor does not use an identical technology for the delivery of BA058, it is possible that they could achieve an equivalent or even superior result using another technology. Such occurrences could lead to either one or more alternative competitor products available on the market and/or one or more generic competitor products on the market with a corresponding decrease in market share and/or price for BA058-TD. See "Business Patents relating to BA058."

Patents covering RAD1901 as a composition of matter have been issued in the United States, Canada and Australia and are pending in Europe and India. The RAD1901 composition of matter patent in the United States expires in 2026 (not including any Hatch-Waxman extension). Additional patent applications relating to methods of treating vasomotor symptoms, clinical dosage strengths and combination treatment modalities using RAD1901 have been filed. Pending patent applications in the United States and elsewhere may not issue since the interpretation of the legal requirements of patentability in view of any claimed invention before that patent office are not always predictable. As a result, we could encounter challenges or difficulties in building, maintaining and/or defending our intellectual property both in the United States and abroad. See "Business Patents relating to RAD1901."

We may become party to, or threatened with, future adversarial proceedings or litigation regarding intellectual property rights with respect to patents issued or licensed to us, including interference proceedings before the USPTO. Third parties may assert infringement claims against us. If we are found to infringe a third party's intellectual property rights, we could be required to obtain a license from such third party to continue developing and marketing our products and technology. However, we may not be able to obtain any required license on commercially reasonable terms or at all. Even if we were able to obtain a license, it could be non-exclusive, thereby giving our competitors access to the same technologies licensed to us. We could be forced, including by court order, to cease commercializing the infringing technology or product. In addition, we could be found liable for monetary damages. A finding of infringement could prevent us from commercializing our product candidates or force us to cease some of our business operations, which could materially harm our business. Claims that we have misappropriated the confidential information or trade secrets of third parties could have a similar negative impact on our business.

Patent applications covering RAD140 and other SARM compounds that are part of the SARM portfolio have been granted in the United States, Mexico and Australia, and are pending in the United States and elsewhere. The RAD140 composition of matter case expires in 2029 in the United States (this does not include the possibility of any Hatch-Waxman extension) and additional countries if and when it issues. Since patents are both highly technical and legal documents that are frequently subject to intense litigation pressure, there is risk that even if one or more RAD140 patents does issue and is asserted that the patent(s) will be found invalid, unenforceable and/or not infringed when subject to said litigation. Finally, the intellectual property laws and practices can vary considerably from one country to another and also can change with time. As a result, we could encounter challenges or difficulties in building, maintaining and defending our intellectual property both in the United States and abroad. See "Business Patents relating to RAD140."

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**If we are unable to obtain and maintain patent protection for our technology and products, or if our licensors are unable to obtain and maintain patent protection for the technology or products that we license from them, our competitors could develop and commercialize technology and products similar or identical to ours, and our ability to successfully commercialize our technology and products may be adversely affected.**

Our success depends in large part on our and our licensors' ability to obtain and maintain patent protection in the United States and other countries with respect to our proprietary technology and products. In some circumstances, we may not have the right to control the preparation, filing and prosecution of patent applications, or to maintain the patents, covering technology or products that we license from third parties. Therefore, we cannot be certain that these patents and applications will be prosecuted and enforced in a manner consistent with the best interests of our business. In addition, if third parties who license patents to us fail to maintain such patents, or lose rights to those patents, the rights we have licensed may be reduced or eliminated.

The patent position of biotechnology and pharmaceutical companies generally is highly uncertain, involves complex legal and factual questions and has in recent years been the subject of much litigation. As a result, the issuance, scope, validity, enforceability and commercial value of our and our licensors' patent rights are highly uncertain. Our and our licensors' pending and future patent applications may not result in patents being issued which protect our technology or products or which effectively prevent others from commercializing competitive technologies and products. Changes in either the patent laws or interpretation of the patent laws in the United States and other countries may diminish the value of our patents or narrow the scope of our patent protection. The laws of foreign countries may not protect our rights to the same extent as the laws of the United States. Publications of discoveries in the scientific literature often lag behind the actual discoveries, and patent applications in the United States and other jurisdictions are typically not published until 18 months after filing, or in some cases not at all. Therefore, we cannot be certain that we or our licensors were the first to make the inventions claimed in our owned and licensed patents or pending patent applications, or that we or our licensors were the first to file for patent protection of such inventions. Assuming the other requirements for patentability are met, in the United States, the first to make the claimed invention is entitled to the patent, while outside the United States, the first to file a patent application is entitled to the patent. We may become involved in opposition or interference proceedings challenging our patent rights or the patent rights of others. An adverse determination in any such proceeding could reduce the scope of, or invalidate, our patent rights, allow third parties to commercialize our technology or products and compete directly with us, without payment to us, or result in our inability to manufacture or commercialize products without infringing third-party patent rights.

Even if our owned and licensed patent applications issue as patents, they may not issue in a form that will provide us with any meaningful protection, prevent competitors from competing with us or otherwise provide us with any competitive advantage. Our competitors may be able to circumvent our owned or licensed patents by developing similar or alternative technologies or products in a non-infringing manner. The issuance of a patent is not conclusive as to its scope, validity or enforceability, and our owned and licensed patents may be challenged in the courts or patent offices in the United States and abroad. Such challenges may result in patent claims being narrowed, invalidated or held unenforceable, which could limit our ability to stop or prevent us from stopping others from using or commercializing similar or identical technology and products, or limit the duration of the patent protection of our technology and products. Given the amount of time required for the development, testing and regulatory review of new product candidates, patents protecting such candidates might expire before or shortly after such candidates are commercialized. As a result, our owned and licensed patent portfolio may not provide us with sufficient rights to exclude others from commercializing products similar or identical to ours.

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**Payments, fees, submissions and various additional requirements must be met in order for pending patent applications to advance in prosecution and issued patents to be maintained. Rigorous compliance with these requirements is essential to procurement and maintenance of patents integral to the product portfolio.**

Periodic maintenance fees, renewal fees, annuity fees and various other governmental fees on patents and/or patent applications will come due for payment periodically throughout the lifecycle of patent applications and issued patents. In order to help ensure that we comply with any required fee payment, documentary and/or procedural requirements as they might relate to any patents for which we are an assignee or co-assignee, we employ competent legal help and related professionals as needed to comply with those requirements. Our outside patent counsel uses Computer Packages, Inc. for patent annuity payments. Failure to meet a required fee payment, document production or procedural requirement can result in the abandonment of a pending patent application or the lapse of an issued patent. In some instances the defect can be cured through late compliance but there are situations where the failure to meet the required event cannot be cured. Such an occurrence could compromise the intellectual property protection around a preclinical or clinical candidate and possibly weaken or eliminate our ability to protect our eventual market share for that product.

**If we are unable to protect the confidentiality of our trade secrets, our business and competitive position would be harmed.**

In addition to our patented technology and products, we rely on trade secrets, including unpatented know-how, technology and other proprietary information, to maintain our competitive position. We seek to protect these trade secrets, in part, by entering into non-disclosure and confidentiality agreements with parties that have access to them, such as our employees, corporate collaborators, outside scientific collaborators, sponsored researchers, contract manufacturers, consultants, advisors and other third parties. We also enter into confidentiality and invention or patent assignment agreements with our employees and consultants. In addition, any of these parties may breach the agreements and disclose our proprietary information, and we may not be able to obtain adequate remedies for such breaches. Enforcing a claim that a party illegally disclosed or misappropriated a trade secret is difficult, expensive and time-consuming, and the outcome is unpredictable. In addition, some courts inside and outside the United States are less willing or unwilling to protect trade secrets. If any of our trade secrets were to be lawfully obtained or independently developed by a competitor, we would have no right to prevent them from using that technology or information to compete with us. If any of our trade secrets were to be disclosed to or independently developed by a competitor, our competitive position would be harmed.

**If we infringe the rights of third parties, we could be prevented from selling products and could be forced to pay damages and defend against litigation.**

If our products, methods, processes and other technologies infringe the proprietary rights of other parties, we could incur substantial costs and may have to:

- > obtain licenses, which may not be available on commercially reasonable terms, if at all;
- > abandon an infringing drug candidate;
- > redesign our products or processes to avoid infringement;
- > stop using the subject matter claimed in the patents held by others;
- > pay damages; or

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> defend litigation or administrative proceedings which may be costly whether we win or lose and which could result in a substantial diversion of our financial and management resources.

**We may become involved in lawsuits to protect or enforce our patents, which could be expensive, time consuming and unsuccessful.**

Competitors may infringe our patents. To counter infringement or unauthorized use, we may be required to file infringement claims, which can be expensive and time consuming. In addition, in an infringement proceeding, a court may decide that a patent of ours is invalid or unenforceable, or may refuse to stop the other party from using the technology at issue on the grounds that our patents do not cover the technology in question. An adverse result in any litigation proceeding could put one or more of our patents at risk of being invalidated or interpreted narrowly. Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. In addition, our licensors may have rights to file and prosecute such claims and we may be reliant on them to do so.

**We may be subject to claims that our employees have wrongfully used or disclosed alleged trade secrets of their former employers.**

Some of our employees were previously employed at universities or other biotechnology or pharmaceutical companies, including our competitors or potential competitors. Although we try to ensure that our employees do not use the proprietary information or know-how of others in their work for us, we may be subject to claims that we or these employees have used or disclosed intellectual property, including trade secrets or other proprietary information, of any such employee's former employer. Litigation may be necessary to defend against these claims. If we fail in defending any such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management.

**Intellectual property litigation could cause us to spend substantial resources and distract our personnel from their normal responsibilities.**

Even if resolved in our favor, litigation or other legal proceedings relating to intellectual property claims may cause us to incur significant expenses, and could distract our technical and management personnel from their normal responsibilities. In addition, there could be public announcements of the results of hearings, motions or other interim proceedings or developments, and if securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock. Such litigation or proceedings could substantially increase our operating losses and reduce our resources available for development activities. We may not have sufficient financial or other resources to adequately conduct such litigation or proceedings. Some of our competitors may be able to sustain the costs of such litigation or proceedings more effectively than we can because of their substantially greater financial resources. Uncertainties resulting from the initiation and continuation of patent litigation or other proceedings could have a material adverse effect on our ability to compete in the marketplace.

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**Risks related to legislation and administrative actions**

**Healthcare reform may have a material adverse effect on our industry and our results of operations.**

From time to time, legislation is implemented to reign in rising healthcare expenditures. In March 2010, President Obama signed into law the Patient Protection and Affordable Care Act, as amended by the Health Care and Education Reconciliation Act, or PPACA. PPACA includes a number of provisions affecting the pharmaceutical industry, including annual, non-deductible fees on any entity that manufactures or imports certain branded prescription drugs and biologics, beginning in 2011, and increases in Medicaid rebates owed by manufacturers under the Medicaid Drug Rebate Program. In addition, among other things, PPACA also establishes a new Patient-Centered Outcomes Research Institute to oversee, identify priorities in and conduct comparative clinical effectiveness research. Congress has proposed a number of legislative initiatives to alter PPACA, including possible repeal of PPACA. At this time, it remains unclear whether there will be any changes made to certain provisions of PPACA or its entirety. In addition, other legislative changes have been proposed and adopted since PPACA was enacted. Most recently, on August 2, 2011, President Obama signed into law the Budget Control Act of 2011, which may result in such changes as aggregate reductions to Medicare payments to providers of up to two percent per fiscal year, starting in 2013. The full impact on our business of PPACA and the Budget Control Act is uncertain. We cannot predict whether other legislative changes will be adopted, if any, or how such changes would affect the pharmaceutical industry generally.

**We are subject to healthcare laws, regulation and enforcement, and our failure to comply with those laws could have a material adverse effect on our results of operations and financial conditions.**

We are subject to several healthcare regulations and enforcement by the federal government and the states and foreign governments in which we conduct our business. The laws that may affect our ability to operate include:

- > the federal Health Insurance Portability and Accountability Act of 1996, or HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act, which governs the conduct of certain electronic healthcare transactions and protects the security and privacy of protected health information;
- > the federal healthcare programs' Anti-Kickback Statute, which prohibits, among other things, persons from knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, in exchange for or to induce either the referral of an individual for, or the purchase, order or recommendation of, any good or service for which payment may be made under federal healthcare programs such as the Medicare and Medicaid programs;
- > the federal transparency requirements under PPACA, which require manufacturers of drugs, devices, biologics and medical supplies to report to the Department of Health and Human Services information related to physician payments and other transfers of value and physician ownership and investment interests;
- > federal false claims laws, which prohibit, among other things, individuals or entities from knowingly presenting, or causing to be presented, claims for payment from Medicare, Medicaid, or other third-party payors that are false or fraudulent;
- > federal criminal laws that prohibit executing a scheme to defraud any healthcare benefit program or making false statements relating to healthcare matters; and

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- > state law equivalents of each of the above federal laws, such as anti-kickback and false claims laws which may apply to items or services reimbursed by any third-party payor, including commercial insurers.

If our operations are found to be in violation of any of the laws described above or any other governmental regulations that apply to us, we may be subject to penalties, including civil and criminal penalties, damages, fines, the curtailment or restructuring of our operations, the exclusion from participation in federal and state healthcare programs and imprisonment, any of which could adversely affect our ability to operate our business and our financial results.

**We may be exposed to liability claims associated with the use of hazardous materials and chemicals.**

Our research and development activities may involve the controlled use of hazardous materials and chemicals. Although we believe that our safety procedures for using, storing, handling and disposing of these materials comply with federal, state and local laws and regulations, we cannot completely eliminate the risk of accidental injury or contamination from these materials. In the event of such an accident, we could be held liable for any resulting damages and any liability could materially adversely affect our business, financial condition and results of operations. In addition, the federal, state and local laws and regulations governing the use, manufacture, storage, handling and disposal of hazardous or radioactive materials and waste products may require us to incur substantial compliance costs that could materially adversely affect our business, financial condition and results of operations.

**Risks related to employee matters and managing growth**

**We may not successfully manage our growth.**

Our success will depend upon the expansion of our operations and the effective management of our growth, which will place a significant strain on our management and on administrative, operational and financial resources. To manage this growth, we may be required to expand our facilities, augment our operational, financial and management systems and hire and train additional qualified personnel. If we are unable to manage this growth effectively, our business would be harmed.

**We may enter into or seek to enter into business combinations and acquisitions which may be difficult to integrate, disrupt our business, divert management attention or dilute stockholder value.**

We may enter into business combinations and acquisitions. We have limited experience in making acquisitions, which are typically accompanied by a number of risks, including:

- > the difficulty of integrating the operations and personnel of the acquired companies;
- > the potential disruption of our ongoing business and distraction of management;
- > potential unknown liabilities and expenses;
- > the failure to achieve the expected benefits of the combination or acquisition;
- > the maintenance of acceptable standards, controls, procedures and policies; and
- > the impairment of relationships with employees as a result of any integration of new management and other personnel.

If we are not successful in completing acquisitions that we may pursue in the future, we would be required to reevaluate our business strategy and we may have incurred substantial expenses and devoted significant management time and resources in seeking to complete the acquisitions.

In addition, we could use substantial portions of our available cash as all or a portion of the purchase

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price, or we could issue additional securities as consideration for these acquisitions, which could cause our stockholders to suffer significant dilution.

**We rely on key executive officers and scientific and medical advisors, and their knowledge of our business and technical expertise would be difficult to replace.**

We are highly dependent on our chief executive officer and our principal scientific, regulatory and medical advisors. We do not have "key person" life insurance policies for any of our officers. The loss of the technical knowledge and management and industry expertise of any of our key personnel could result in delays in product development, loss of customers and sales and diversion of management resources, which could adversely affect our operating results.

**If we are unable to hire additional qualified personnel, our ability to grow our business may be harmed.**

We will need to hire additional qualified personnel with expertise in preclinical testing, clinical research and testing, government regulation, formulation and manufacturing and sales and marketing. We compete for qualified individuals with numerous biopharmaceutical companies, universities and other research institutions. Competition for such individuals is intense, and we cannot be certain that our search for such personnel will be successful. Attracting and retaining qualified personnel will be critical to our success.

**RISKS RELATING TO OUR COMMON STOCK AND THIS OFFERING**

**There is no public market for our common stock, and an active trading market may not develop or be sustained after this offering is completed.**

Prior to this offering, there has been no public market for our common stock. The public offering price for our common stock will be determined through negotiations with the underwriters. Although we expect that our common stock will be listed on the NASDAQ Global Market, an active, liquid and orderly trading market for our common stock may never develop or be sustained, which could depress the trading price of our common stock following this offering. If an active market for our common stock does not develop, it may be difficult for you to sell the shares you purchase in this offering without depressing the market price for the shares or at all.

**Our stock price may be volatile, and the value of an investment in our common stock may decline.**

The trading price of our common stock may be subject to wide fluctuations in response to various factors, some of which are beyond our control, including:

- > results of clinical trials of our product candidates or those of our competitors;
- > our operating performance and the operating performance of similar companies;
- > the success of competitive products;
- > the overall performance of the equity markets;
- > the number of shares of our common stock publicly owned and available for trading;
- > threatened or actual litigation;
- > changes in laws or regulations relating to our products, including changes in the structure of healthcare payment systems;



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- > any major change in our board of directors or management;
- > publication of research reports about us or our industry or positive or negative recommendations or withdrawal of research coverage by securities analysts;
- > large volumes of sales of our shares of common stock by existing stockholders;
- > general political, economic and market conditions; and
- > the other factors described in this "Risk factors" section.

In addition, the stock market in general has experienced extreme price and volume fluctuations that have often been unrelated or disproportionate to the operating performance of those companies. These fluctuations may be even more pronounced in the trading market for our stock shortly following this offering. Securities class action litigation has often been instituted against companies following periods of volatility in the overall market and in the market price of a company's securities. Such litigation, if instituted against us, could result in very substantial costs, divert our management's attention and resources and harm our business, operating results and financial condition.

**We have broad discretion in the use of the net proceeds from this offering and may not use them effectively.**

Our management will have broad discretion in the application of the net proceeds from this offering and could spend the proceeds in ways that do not improve our results of operations or enhance the value of our common stock. The failure by our management to apply these funds effectively could result in financial losses that could have a material adverse effect on our business, cause the price of our common stock to decline and delay the development of our product candidates. Pending their use, we may invest the net proceeds from this offering in a manner that does not produce income or that loses value.

**Because we do not anticipate paying any cash dividends on our common stock in the foreseeable future, capital appreciation, if any, will be your sole source of gain.**

We have never declared or paid cash dividends on our common stock. We currently intend to retain all of our future earnings, if any, to finance the growth and development of our business. In addition, the terms of our credit facility preclude us from paying cash dividends. As a result, capital appreciation, if any, of our common stock will be your sole source of gain for the foreseeable future.

**If you purchase shares of common stock in this offering, you will suffer immediate dilution of your investment.**

The public offering price of our common stock is substantially higher than the net tangible book value per share of our common stock. Therefore, if you purchase shares of our common stock in this offering, you will pay a price per share that substantially exceeds our net tangible book value per share after this offering. To the extent outstanding options or warrants are exercised, you will incur further dilution. Based on an assumed public offering price of \$            per share, the midpoint of the price range set forth on the cover page of this prospectus, you will experience immediate dilution of \$            per share, representing the difference between our pro forma net tangible book value per share after giving effect to this offering and the assumed public offering price. In addition, purchasers of common stock in this offering will have contributed approximately        % of the aggregate price paid by all purchasers of our stock but will own only approximately        % of our common stock outstanding after this offering.

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**Risk factors**

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**We will incur increased costs as a result of operating as a public company, and our management will be required to devote substantial time to new compliance initiatives.**

As a public company listed on the NASDAQ Global Market, we will incur significant legal, accounting and other expenses that we did not incur as a private company and prior to the listing of our common stock on the NASDAQ Global Market. In addition, the Sarbanes-Oxley Act of 2002 and rules subsequently implemented by the Securities and Exchange Commission, or the SEC, and NASDAQ have imposed various requirements on public companies, including establishment and maintenance of effective disclosure and financial controls and corporate governance practices. Our management and other personnel will need to devote a substantial amount of time to these compliance initiatives. Moreover, these rules and regulations will increase our legal and financial compliance costs and will make some activities more time-consuming and costly.

Pursuant to Section 404 of the Sarbanes-Oxley Act of 2002, or Section 404, we will be required to furnish a report by our management on our internal control over financial reporting, including an attestation report on internal control over financial reporting issued by our independent registered public accounting firm at such time as we no longer qualify as a smaller reporting company. To achieve compliance with Section 404 within the prescribed period, we will be engaged in a process to document and evaluate our internal control over financial reporting, which is both costly and challenging. In this regard, we will need to continue to dedicate internal resources, potentially engage outside consultants and adopt a detailed work plan to assess and document the adequacy of internal control over financial reporting, continue steps to improve control processes as appropriate, validate through testing that controls are functioning as documented and implement a continuous reporting and improvement process for internal control over financial reporting. Despite our efforts, there is a risk that neither we nor our independent registered public accounting firm will be able to conclude within the prescribed timeframe that our internal control over financial reporting is effective as required by Section 404. This could result in an adverse reaction in the financial markets due to a loss of confidence in the reliability of our financial statements.

**Our directors, executive officers and principal stockholders will continue to have substantial control over us after this offering and could delay or prevent a change in corporate control.**

After this offering, our directors, executive officers and holders of more than five percent of our common stock, together with their affiliates, will own, in the aggregate, approximately % of our outstanding common stock. As a result, these stockholders, acting together, would have the ability to control the outcome of matters submitted to our stockholders for approval, including the election of directors and any merger, consolidation or sale of all or substantially all of our assets. In addition, these stockholders, acting together, would have the ability to control the management and affairs of our company. Accordingly, this concentration of ownership might harm the market price of our common stock by:

- > delaying, deferring or preventing a change in corporate control;
- > impeding a merger, consolidation, takeover or other business combination involving us; or
- > discouraging a potential acquirer from making a tender offer or otherwise attempting to obtain control of us.

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**Risk factors**

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**Future sales of shares of our common stock by stockholders could depress the price of our common stock.**

Based on shares outstanding as of June 30, 2012, upon the completion of this offering, we will have \_\_\_\_\_ shares of our common stock outstanding. Of these shares, the shares sold in this offering and the 5,320,600 shares of our common stock that are registered for resale under an effective registration statement will be freely tradable. The holders of \_\_\_\_\_ shares of common stock have signed lock-up agreements under which they have agreed not to sell, transfer or dispose of, directly or indirectly, any shares of our common stock or any securities into or exercisable or exchangeable for shares of our common stock without the prior written consent of UBS Securities LLC and Leerink Swann LLC for a period of 180 days, subject to a possible extension under certain circumstances, after the date of this prospectus. After the expiration of the lock-up period, these shares may be sold in the public market, subject to prior registration or qualification for an exemption from registration, including, in the case of shares held by affiliates, compliance with the volume restrictions of Rule 144. To the extent that any of these stockholders sell, or indicate an intent to sell, substantial amounts of our common stock in the public market after the contractual lock-ups and other legal restrictions on resale discussed in this prospectus lapse, the trading price of our common stock could decline significantly.

In addition, the 4,740,418 shares of our common stock reserved for issuance under our equity incentive plans, including 3,937,386 shares of common stock issuable upon the exercise of options outstanding as of June 30, 2012, will become eligible for sale in the public market in the future, subject to certain legal and contractual limitations. If these additional shares are sold, or if it is perceived that they will be sold, in the public market, the price of our common stock could decline substantially.

**If securities or industry analysts cease to publish research or publish inaccurate or unfavorable research about our business, our stock price and trading volume could decline.**

The trading market for our common stock depends in part on the research and reports that securities or industry analysts publish about us or our business. If one or more of the analysts who cover us downgrade our stock or publish inaccurate or unfavorable research about our business, our stock price would likely decline. If one or more of these analysts cease coverage of our company or fail to publish reports on us regularly, demand for our stock could decrease, which might cause our stock price and trading volume to decline.

**Anti-takeover provisions contained in our restated certificate of incorporation and amended and restated bylaws, as well as provisions of Delaware law, could impair a takeover attempt.**

Our restated certificate of incorporation and our amended and restated bylaws that will be effective upon the listing of our common stock on the NASDAQ Global Market contain provisions that could delay or prevent a change in control of our company. These provisions could also make it more difficult for stockholders to elect directors and take other corporate actions. These provisions include:

- > a staggered board of directors;
- > authorizing the board to issue, without stockholder approval, preferred stock with rights senior to those of our common stock;
- > authorizing the board to amend our bylaws and to fill board vacancies until the next annual meeting of the stockholders;
- > prohibiting stockholder action by written consent;

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**Risk factors**

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- > limiting the liability of, and providing indemnification to, our directors and officers;
- > eliminating the ability of our stockholders to call special meetings; and
- > requiring advance notification of stockholder nominations and proposals.

Section 203 of the Delaware General Corporation Law, or DGCL, prohibits, subject to some exceptions, "business combinations" between a Delaware corporation and an "interested stockholder," which is generally defined as a stockholder who becomes a beneficial owner of 15% or more of a Delaware corporation's voting stock, for a three-year period following the date that the stockholder became an interested stockholder.

These and other provisions in our restated certificate of incorporation and our amended and restated bylaws to be effective upon the listing of our common stock on the NASDAQ Global Market under Delaware law could discourage potential takeover attempts, reduce the price that investors might be willing to pay in the future for shares of our common stock and result in the market price of our common stock being lower than it would be without these provisions. See "Description of capital stock Preferred Stock" and "Description of capital stock Anti-Takeover Provisions."

**Our ability to utilize our net operating loss carryforwards and certain other tax attributes may be limited.**

As of December 31, 2011, we had \$128.3 million of federal and \$109.7 million of state net operating loss carryforwards available to offset future taxable income. Under Section 382 of the Internal Revenue Code of 1986, as amended, or the Code, if a corporation undergoes an "ownership change" (generally defined as a greater than 50% change (by value) in its equity ownership over a three year period), the corporation's ability to use its pre-change net operating loss carryforwards and other pre-change tax attributes to offset its post-change income may be limited. We have not performed a detailed analysis to determine whether an ownership change under Section 382 of the Code has previously occurred or will occur as a result of this offering. As a result, if we earn net taxable income, our ability to use our pre-change net operating loss carryforwards to offset U.S. federal taxable income may become subject to limitations, which could potentially result in increased future tax liability to us.

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## Special note regarding forward-looking statements

In addition to historical information, this prospectus, including the sections titled "Prospectus summary," "Risk factors," Management's discussion and analysis of financial condition and results of operations" and "Business," contains forward-looking statements. In some cases, we may use words such as "project," "believe," "anticipate," "plan," "expect," "estimate," "intend," "continue," "should," "would," "could," "potentially," "will," "may" or similar words and expressions that convey uncertainty of future events or outcomes to identify these forward-looking statements. Forward-looking statements in this prospectus may include, among other things, statements about:

- > the progress of, timing of and amount of expenses associated with our research, development and commercialization activities;
- > the success of our clinical studies for our product candidates;
- > our ability to obtain U.S. and foreign regulatory approval for our product candidates and the ability of our product candidates to meet existing or future regulatory standards;
- > our expectations regarding federal, state and foreign regulatory requirements;
- > the therapeutic benefits and effectiveness of our product candidates;
- > the safety profile and related adverse events of our product candidates;
- > our ability to manufacture sufficient amounts of BA058, RAD1901 and RAD140 for commercialization activities with target characteristics;
- > our plans with respect to collaborations and licenses related to the development, manufacture or sale of our product candidates;
- > our expectations as to future financial performance, expense levels and liquidity sources;
- > our ability to compete with other companies that are or may be developing or selling products that are competitive with our product candidates;
- > anticipated trends and challenges in our potential markets;
- > our ability to attract and motivate key personnel; and
- > other factors discussed elsewhere in this prospectus.

The outcome of the events described in these forward-looking statements is subject to known and unknown risks, uncertainties and other important factors that could cause actual results to differ materially from the results anticipated by these forward-looking statements. These important factors include our financial performance, our ability to attract and retain customers, our development activities and those other factors we discuss in this prospectus under the caption "Risk factors." You should read these factors and the other cautionary statements made in this prospectus as being applicable to all related forward-looking statements wherever they appear in this prospectus.

## Edgar Filing: Radius Health, Inc. - Form S-1/A

Before you decide to invest in our common stock, you should carefully consider these risk factors, together with the other information contained in this prospectus, including our financial statements and the related notes and the information set forth under the heading "Management's discussion and analysis of financial condition and results of operations."

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## Use of proceeds

We estimate that our net proceeds from this offering will be approximately \$ \_\_\_\_\_ million, assuming a public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. If the underwriters exercise their over-allotment option in full, we estimate that our net proceeds from this offering will be approximately \$ \_\_\_\_\_ million. Each \$1.00 increase or decrease in the assumed public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, would result in an approximately \$ \_\_\_\_\_ million increase or decrease in our net proceeds from this offering, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. Each increase or decrease of one million shares in the number of shares to be offered by us would increase or decrease our net proceeds from this offering by approximately \$ \_\_\_\_\_ million, assuming that the public offering price is \$ \_\_\_\_\_ per share, the midpoint of the price range set forth on the cover page of this prospectus and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us.

We expect to use the net proceeds of this offering to fund the clinical development of our most advanced product candidates and for other general corporate purposes.

Our management will have broad discretion over the uses of the net proceeds from this offering. Pending application of the net proceeds, we intend to invest the net proceeds in short-term, investment-grade, interest-bearing securities.

## Dividend policy

We have never declared or paid any cash dividends on our common stock. We currently intend to retain all of our future earnings, if any, to finance the growth and development of our business. We do not intend to pay cash dividends to holders of our common stock in the foreseeable future.

Our ability to pay cash dividends is restricted pursuant to the terms of our credit facility. See "Management's discussion and analysis of financial condition and results of operations Liquidity and Capital Resources Financings."

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## Capitalization

The following table sets forth our cash, cash equivalents and marketable securities and capitalization as of June 30, 2012, as follows:

- > on an actual basis;
- > on a pro forma basis to give effect to (1) the automatic conversion of all outstanding shares of our convertible preferred stock into 20,754,880 shares of common stock upon the listing of our common stock on the NASDAQ Global Market and (2) the issuance of 1,639,421 shares of common stock upon the listing of our common stock on the NASDAQ Global Market in satisfaction of accumulated dividends on our series A-1, A-2 and A-3 convertible preferred stock, assuming for this purpose that the listing of our common stock on the NASDAQ Global Market occurred on June 30, 2012; and
- > on a pro forma as adjusted basis to give further effect to our issuance and sale of        shares of our common stock in this offering at an assumed public offering price of \$        per share, which is the midpoint of the price range set forth on the cover page of this prospectus, after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us.

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You should read this information in conjunction with "Summary financial data," "Selected financial data," "Management's discussion and analysis of financial condition and results of operations" and our financial statements and related notes, all included elsewhere in this prospectus.

	As of June 30, 2012		
	Actual	Pro forma	Pro forma as adjusted(1)
	(In thousands, except share and per share data)		
Cash, cash equivalents and marketable securities	\$ 45,874	\$ 45,874	\$
Note payable, net of current portion and discount	\$ 17,083	\$ 17,083	\$
Convertible preferred stock, par value \$.0001 per share:			
Series A-1 convertible preferred stock: 1,000,000 shares authorized, 939,612 shares issued and outstanding, actual; no shares authorized, issued or outstanding, pro forma and pro forma as adjusted	68,755		
Series A-2 convertible preferred stock: 983,213 shares authorized, 983,208 shares issued and outstanding, actual; no shares authorized, issued or outstanding, pro forma and pro forma as adjusted	83,238		
Series A-3 convertible preferred stock: 142,230 shares authorized, 142,227 shares issued and outstanding, actual; no shares authorized, issued or outstanding, pro forma and pro forma as adjusted	10,679		
Series A-4 convertible preferred stock: 4,000 shares authorized, 3,998 shares issued and outstanding, actual; no shares authorized, issued or outstanding, pro forma and pro forma as adjusted	271		
Series A-5 convertible preferred stock: 7,000 shares authorized, 6,443 shares issued and outstanding, actual; no shares authorized, issued or outstanding, pro forma and pro forma as adjusted	525		
Total convertible preferred stock	\$ 163,468	\$	\$
Stockholders' equity (deficit):			
Common stock, par value \$.0001 per share: 100,000,000 shares authorized, 855,116 shares issued and outstanding, actual; 100,000,000 shares authorized, 23,249,417 shares issued and outstanding, pro forma; 100,000,000 shares authorized, shares issued and outstanding, pro forma as adjusted	\$	\$ 2	\$
Additional paid-in capital		163,466	
Accumulated other comprehensive loss	10	10	
Accumulated deficit	(156,127)	(156,127)	
Total stockholders' equity (deficit)	\$ (156,117)	\$ 7,351	\$
Total capitalization	\$ 24,434	\$ 24,434	\$

(1) Each \$1.00 increase or decrease in the assumed public offering price of \$ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, would increase or decrease each of the pro forma as adjusted cash, cash equivalents and marketable securities, total stockholders' equity (deficit) and total capitalization by approximately \$ million, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus,

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**Capitalization**

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*remains the same, and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. Each increase or decrease of one million shares in the number of shares to be offered by us would increase or decrease each of the pro forma as adjusted cash, cash equivalents and marketable securities, total stockholders' equity (deficit) and total capitalization by approximately \$                      million, assuming that the public offering price is \$                      per share, the midpoint of the price range set forth on the cover page of this prospectus and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. The pro forma as adjusted information discussed above is illustrative only and will adjust based on the actual public offering price and other terms of this offering.*

The table above does not include:

- > 3,937,386 shares of our common stock issuable upon the exercise of outstanding stock options at a weighted average exercise price of \$3.10 per share;
- > 803,032 shares of our common stock reserved for future issuance under our 2011 equity incentive plan;
- > 147,606 shares of our common stock issuable upon the exercise of outstanding warrants at a weighted average exercise price of \$8.15 per share; and
- > 2,448,340 shares of our common stock reserved for issuance in satisfaction of dividends accrued as of June 30, 2012 on our shares of series A-5 convertible preferred stock, which may be issued at any time following the listing of our common stock on the NASDAQ Global Market, and additional shares that will accrue quarterly based on the progress of certain preclinical and clinical trials conducted for us by Nordic, the holder of our series A-5 convertible preferred stock, and are issuable at a price per share equal to the greater of (1) \$8.142 or (2) the 20-day average closing trading price of our common stock as of two days prior to the date of accrual.

The terms of our existing series A-1, A-2 and A-3 convertible preferred stock require us, upon the listing of our common stock on the NASDAQ Global Market, to issue additional shares of common stock to the holders of such preferred stock in satisfaction of accumulated dividends on such preferred stock. The dividends on all such shares currently accumulate at the rate of approximately \$39,048 per day and are payable in shares of common stock at a price of \$8.142 per share. Accordingly, the actual number of shares we will issue in satisfaction of these accumulated dividends will depend upon the timing of this offering and the listing of our common stock on the NASDAQ Global Market. The table above does not include additional shares of common stock issuable in satisfaction of dividends accumulated on such shares between July 1, 2012 and the date that our common stock is listed on the NASDAQ Global Market. Assuming that the listing of our common stock on the NASDAQ Global Market occurred on September 30, 2012, we would have issued an aggregate of 2,080,644 shares of our common stock to the holders of our series A-1, A-2 and A-3 convertible preferred stock in satisfaction of accumulated dividends.

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## Dilution

If you invest in our common stock in this offering, your ownership interest will be diluted immediately to the extent of the difference between the public offering price per share of our common stock and the pro forma net tangible book value per share of our common stock after this offering.

Our historical net tangible book value (deficit) as of June 30, 2012 was \$(156.1) million or \$(182.57) per share of common stock, based on 855,116 shares of common stock outstanding as of June 30, 2012. Historical net tangible book value per share is determined by dividing our total tangible assets less total liabilities and redeemable preferred stock by the actual number of shares of common stock outstanding.

Our pro forma net tangible book value as of June 30, 2012 was \$7.4 million, or \$0.32 per share of common stock, based on 23,249,417 shares of common stock outstanding after giving effect to the conversion of all of our convertible preferred stock into 20,754,880 shares of common stock upon the listing of our common stock on the NASDAQ Global Market and the assumed issuance of 1,639,421 shares of common stock upon the listing of our common stock on the NASDAQ Global Market in satisfaction of accumulated dividends of our series A-1, A-2 and A-3 convertible preferred stock. Pro forma net tangible book value per share is determined by dividing our total tangible assets less total liabilities and redeemable preferred stock by the pro forma number of shares of common stock outstanding at June 30, 2012 before giving effect to our sale of shares of common stock in this offering.

After giving effect to our issuance and sale of \_\_\_\_\_ shares of our common stock in this offering at an assumed initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the price range listed on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us, our pro forma net tangible book value as of June 30, 2012 would have been \$ \_\_\_\_\_ million, or \$ \_\_\_\_\_ per share. This represents an immediate increase in pro forma net tangible book value per share of \$ \_\_\_\_\_ to existing stockholders and immediate dilution of \$ \_\_\_\_\_ in pro forma net tangible book value per share to new investors purchasing common stock in this offering.

Dilution per share to new investors is determined by subtracting pro forma net tangible book value per share after this offering from the initial public offering price per share paid by new investors. The following table illustrates this dilution on a per share basis.

Assumed initial public offering price per share	
Historical net tangible book value (deficit) per share as of June 30, 2012	\$(182.57)
Pro forma increase per share attributable to pro forma conversion of convertible preferred stock and issuance of shares of common stock in satisfaction of accumulated dividends on series A-1, A-2 and A-3 convertible preferred stock	\$182.89
Pro forma net tangible book value per share as of June 30, 2012, before this offering	\$0.32
Increase per share attributable to this offering	
Pro forma as adjusted net tangible book value per share as of June 30, 2012, after this offering	
Dilution per share to new investors in this offering	
Each \$1.00 increase or decrease in the assumed public offering price of \$ _____ per share, which is the midpoint of the price range listed on the cover page of this prospectus, would increase or decrease our pro forma net tangible book value by approximately \$ _____, our pro forma net tangible book value per share by approximately \$ _____ and dilution per share to new investors by approximately \$ _____, assuming that the number of shares offered by us, as set forth on the cover page of this	

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**Dilution**

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prospectus, remains the same and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

If the underwriters exercise their over-allotment option or if any additional shares are issued in connection with outstanding options, you will experience further dilution.

The following table summarizes, on a pro forma basis as of June 30, 2012, the total number of shares purchased from us, the total consideration paid, or to be paid, and the average price per share paid, or to be paid, by existing stockholders and by new investors in this offering at an assumed initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the price range listed on the cover page of this prospectus, before deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. As the table shows, new investors purchasing shares in this offering will pay an average price per share substantially higher than our existing stockholders paid.

	Shares purchased		Total consideration		Average price
	Number	Percent	Amount	Percent	per share

Existing stockholders					
New investors					
Total					

Each \$1.00 increase or decrease in the assumed public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the price range listed on the cover page of this prospectus, would increase or decrease the total consideration paid by new investors by \$ \_\_\_\_\_ million and increase or decrease the percentage of total consideration paid by new investors by approximately \_\_\_\_\_ %, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same.

If the underwriters exercise their over-allotment option in full, the following will occur:

- > the percentage of shares of our common stock held by existing stockholders will decrease to approximately \_\_\_\_\_ % of the total number of shares of our common stock outstanding after this offering; and
- > the number of shares of our common stock held by new investors will increase to \_\_\_\_\_, or approximately \_\_\_\_\_ % of the total number of shares of our common stock outstanding after this offering.

The pro forma information above excludes 2,448,340 shares of our common stock reserved for issuance in satisfaction of dividends accrued as of June 30, 2012 on our shares of series A-5 convertible preferred stock, which may be issued at any time following the listing of our common stock on the NASDAQ Global Market, and additional shares that will accrue quarterly based on the progress of certain preclinical and clinical trials conducted for us by Nordic, the holder of our series A-5 convertible preferred stock, and are issuable at a price per share equal to the greater of (1) \$8.142 or (2) the 20-day average closing trading price of our common stock as of two days prior to the date of accrual.

Table of Contents**Selected financial data**

You should read the following selected historical financial data in conjunction with "Summary financial data," "Management's discussion and analysis of financial condition and results of operations" and the financial statements and related notes, all included elsewhere in this prospectus.

We derived the statements of operations data for the years ended December 31, 2009, 2010 and 2011 and the balance sheets data as of December 31, 2011 from our audited financial statements included elsewhere in this prospectus. We derived the statement of operations data for the six months ended June 30, 2011 and 2012 and the balance sheet data as of June 30, 2012 from our unaudited financial statements for period ended June 30, 2012 included elsewhere in this prospectus. Our historical results are not necessarily indicative of the results to be expected in the future.

SEC rules require that the most recently filed annual financial statements be recast in this prospectus to reflect any subsequent changes in accounting principles or presentation that are being applied retrospectively. As a result, we have recast certain financial information presented in our Annual Report on Form 10-K to reflect the adoption of Accounting Standards Update No. 2011-05, *Presentation of Comprehensive Income*. These changes were previously reflected in our most recent quarterly report on Form 10-Q. Except as related to the matters that have led to the recast financial information presented herein, the disclosures contained in our Annual Report on Form 10-K have not otherwise been updated from those disclosures contained in our 2011 Form 10-K.

<b>Statements of Operations and Comprehensive Loss Data:</b>	<b>Years ended December 31,</b>			<b>Six months ended June 30,</b>	
	<b>2011</b>	<b>2010</b>	<b>2009</b>	<b>2012</b>	<b>2011</b>
	<b>(in thousands, except share and per share amounts)</b>				
<b>Revenue:</b>					
Option fee revenue	\$	\$	\$ 1,616	\$	\$
<b>Operating expenses:</b>					
Research and development	36,179	11,692	14,519	24,366	20,689
General and administrative	5,330	3,630	2,668	4,291	1,842
Restructuring		217			
Loss from operations	(41,509)	(15,539)	(15,571)	(28,657)	(22,531)
Other income (expense), net	(236)	824	(7)	(1,184)	22
Interest income (expense), net	(731)	85	489	(992)	(88)
Net loss	\$ (42,476)	\$ (14,630)	\$ (15,089)	\$ (30,833)	\$ (22,597)
<b>Other comprehensive loss, net of tax:</b>					
Unrealized gain (loss) from available-for-sale securities	8	(18)	(232)	5	3
Comprehensive loss	\$ (42,468)	\$ (14,648)	\$ (15,321)	\$ (30,828)	\$ (22,594)
Earnings (loss) attributable to common stockholders basic and diluted	\$ 253	\$ (26,773)	\$ (26,494)	\$ (37,643)	\$ 1,013
Earnings (loss) per share basic	\$ 0.51	\$ (83.42)	\$ (82.68)	\$ (46.18)	\$ 2.51
Earnings (loss) per share diluted	\$ 0.07	\$ (83.42)	\$ (82.68)	\$ (46.18)	\$ 0.27
Weighted average shares basic	499,944	320,942	320,424	815,053	403,967
Weighted average shares diluted	3,454,276	320,942	320,424	815,053	3,790,913



Table of Contents**Selected financial data**


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<b>Balance Sheet Data:</b>	<b>As of December 31,</b>	<b>2011</b>	<b>2010</b>	<b>As of June 30, 2012</b>
	<b>(in thousands)</b>			
Cash and cash equivalents	\$	25,128	\$ 10,582	\$ 18,832
Marketable securities		31,580	7,969	27,042
Working capital		56,607	15,448	42,609
Total assets		63,637	18,969	51,969
Note payable, net of current portion and discount		8,886		17,083
Total liabilities, convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit		63,637	18,969	51,969

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## Management's discussion and analysis of financial condition and results of operations

*You should read the following discussion of our financial condition and results of operations in conjunction with "Summary financial data," "Selected financial data" and the financial statements and related notes, all included elsewhere in this prospectus. The following discussion contains forward-looking statements that reflect our plans, estimates and beliefs. Our actual results could differ materially from those discussed in the forward-looking statements. You should read "Risk factors" for a discussion of important factors that could cause or contribute to these differences.*

### OVERVIEW

We are a biopharmaceutical company focused on developing new therapeutics for the treatment of osteoporosis and other women's health conditions. We have three product candidates in development, the most advanced of which is BA058. We have begun dosing subjects in a pivotal Phase 3 clinical study of BA058-SC for the prevention of fractures in women suffering from osteoporosis. We are also developing BA058-TD, a short wear time, transdermal form of BA058 that is based on a microneedle technology from 3M, which has completed a Phase 1b clinical study. We believe that BA058-TD may eliminate the need for injections and lead to better treatment compliance for patients. Our second clinical-stage product candidate is RAD1901, which has completed an initial Phase 2a clinical study for the treatment of vasomotor symptoms, commonly known as hot flashes, in women entering menopause. Our third product candidate, RAD140, is in preclinical development and is a potential treatment for age-related muscle loss, frailty, weight loss associated with cancer cachexia and osteoporosis.

BA058 is a novel synthetic peptide analog of hPTHrP we are developing as a bone anabolic treatment for osteoporosis. hPTHrP is a critical cytokine for the regulation of bone formation, able to rebuild bone with low associated risk of inducing hypercalcemia as a side effect. In August 2009, we announced positive Phase 2 data that showed BA058-SC produced faster and greater BMD increases at the spine and the hip after six months and 12 months of treatment than did Forteo, which was a comparator in our study. Key findings were that the highest dose of BA058 tested of 80 micrograms ( $\mu\text{g}$ ) increased mean lumbar spine BMD at six months and 12 months by 6.7% and 12.9% compared to the increases seen with Forteo trial arms of 5.5% and 8.6%, respectively. BA058 also produced increases in mean femoral neck BMD at the hip at six months and 12 months of 3.1% and 4.1% compared to increases for Forteo of 1.1% and 2.2%, respectively. We believe there is a strong correlation between an increased level of BMD and a reduction in the risk of fracture for patients with osteoporosis. BA058 was generally safe and well tolerated in this study, with adverse events similar between BA058, placebo and Forteo groups. In addition, the occurrence of hypercalcemia as a side effect for the 80  $\mu\text{g}$  dose of BA058 was half that seen with Forteo. In April 2011, we began the dosing of subjects in a pivotal Phase 3 clinical study managed by Nordic and expect to report top-line 18-month fracture data from this study in the fourth quarter of 2014. We designed this planned Phase 3 study to enroll a total of 2,400 patients to be randomized equally to receive daily doses of one of the following: 80  $\mu\text{g}$  of BA058, a matching placebo or the approved dose of 20  $\mu\text{g}$  of Forteo for 18 months. The study will also include a 6-month extension period in order to obtain 24-month fracture data requested by the FDA. We plan to file the NDA with the 18-month fracture data and supplementally provide the 24-month fracture data, when available. The study is powered to show that BA058 is superior to placebo for prevention of vertebral fracture. The study is also powered to show that BA058 is superior to Forteo for greater BMD improvement at major skeletal sites and for a lower occurrence of hypercalcemia, a condition in which the calcium level in a patient's blood is above normal.

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On May 17, 2011, the Former Operating Company merged with a subsidiary of ours and the surviving corporation of such merger was merged into us. Our efforts and resources are focused primarily on developing BA058 and our other pharmaceutical product candidates, raising capital and recruiting personnel. We have no product sales to date and we will not receive any revenue from product sales unless and until we receive approval for BA058-SC from the FDA, or equivalent foreign regulatory bodies. However, developing pharmaceutical products is a lengthy and very expensive process. Assuming we do not encounter any unforeseen delays during the course of developing BA058, we do not expect to complete development and file the NDA submission for BA058-SC until approximately mid-2015 and/or BA058-TD until approximately mid-2017. Accordingly, our success depends not only on the safety and efficacy of BA058, but also on our ability to finance the development of these products, which will require substantial additional funding to complete development and file for marketing approval. Our ability to raise this additional financing will depend on our ability to execute on the BA058 development plan, complete patient enrollment in clinical studies in a timely fashion, manage and coordinate on a cost-effective basis all the required components of the NDA submission for BA058-SC and scale-up BA058-SC and BA058-TD manufacturing capacity, as well as overall capital market conditions for companies with limited operating histories.

In addition, we currently have no sales, marketing or distribution capabilities and thus our ability to market BA058 will depend in part on our ability to enter into and maintain collaborative relationships for such capabilities, the collaborators' strategic interest in the products under development and such collaborators' ability to successfully market and sell any such products. Our ability to secure collaborators for BA058 will depend on the strength of our clinical data. However, we believe that there are certain favorable trends that will interest third parties to collaborate on BA058, including increasing prevalence of osteoporosis due to an increase in the elderly population in most developed countries, increased availability and reimbursement of diagnostic facilities, growing physician and patient awareness regarding the importance of treating osteoporosis, and concerns regarding the long-term safety profiles of the bisphosphonates prompting physicians to be interested in new therapies for osteoporosis. We are also evaluating strategic alternatives with respect to collaborating with third parties for the future development of RAD1901 and RAD140. Our ability to further develop these product candidates will be dependent upon the outcome of our collaboration strategy.

**FINANCIAL OVERVIEW**

**Research and development expenses**

Research and development expenses consist primarily of clinical testing costs, including payments in cash and stock made to contracted research organizations, salaries and related personnel costs, fees paid to consultants and outside service providers for regulatory and quality assurance support, licensing of drug compounds, and other expenses relating to the manufacture, development, testing and enhancement of our product candidates. We expense our research and development costs as they are incurred.

Our lead product candidate is BA058 and it represents the largest portion of our research and development expenses for our product candidates. BA058 is a novel synthetic peptide analog of hPTHrP being developed by us as a treatment for osteoporosis in both injection and transdermal methods of administration. BA058-SC is currently in a Phase 3 study. BA058-TD is in a Phase 2 clinical study that commenced in the third quarter of 2012, from which we expect top-line data to be available in the third quarter of 2013. Our other clinical-stage program is RAD1901, a SERM, which has completed an initial Phase 2a clinical study for the treatment of vasomotor symptoms, commonly known as hot flashes, in women entering menopause. A Phase 2 study is designed to test the efficacy

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of a novel treatment and confirm the safety profile established in a Phase 1 trial. Our third product candidate is RAD140, a SARM, which is in preclinical development.

The following table sets forth our research and development expenses related to BA058-SC, BA058-TD, RAD1901 and RAD140 for the years ended December 31, 2011, 2010 and 2009 and for the six months ended June 30, 2012 and 2011. No research and development expenses in relation to our product candidates are currently borne by third parties. We began tracking program expenses for BA058-SC in 2005, and program expenses from inception to June 30, 2012 were approximately \$73.6 million. We began tracking program expenses for BA058-TD in 2007, and program expenses from inception to June 30, 2012 were approximately \$14.1 million. We began tracking program expenses for RAD1901 in 2006, and program expenses from inception to June 30, 2012 were approximately \$15.4 million. We began tracking program expenses for RAD140 in 2008, and program expenses from inception to June 30, 2012 were approximately \$5.2 million. These expenses relate primarily to external costs associated with manufacturing, preclinical studies and clinical trial costs.

Costs related to facilities, depreciation, share-based compensation and research and development support services are not directly charged to programs as they benefit multiple research programs that share resources.

	Year ended December 31,			Six months ended June 30,	
	2011	2010	2009	2012	2011
	(In thousands)				
BA058-SC	\$ 27,046	\$ 4,664	\$ 3,671	\$ 20,116	\$ 16,774
BA058-TD	6,369	1,863	2,819	2,209	2,758
RAD1901	70	1,654	2,185		
RAD140	23	313	2,031	18	23

The majority of our external costs are spent on BA058, as costs associated with later stage clinical trials are, in most cases, more significant than those incurred in earlier stages of our pipeline. In April 2011, we began the dosing of patients in a pivotal Phase 3 clinical study of BA058-SC for the treatment of osteoporosis. In addition, we commenced a Phase 2 clinical study of BA058-TD in the third quarter of 2012, and expect top-line data from this study to be available in the third quarter of 2013. We expect that future development costs related to BA058-SC and BA058-TD programs will increase significantly through possible marketing approval in the United States for BA058-SC in mid-2016 and for BA058-TD in mid-2018. For BA058-SC, we estimate that future development costs may exceed \$118.0 million, including \$88.0 million for clinical costs, \$17.0 million for license and milestone payments and NDA filing fees, \$7.0 million for preclinical costs and \$6.0 million for manufacturing costs. For BA058-TD, we estimate that future development costs may exceed \$43.0 million, including \$28.0 million for clinical costs, \$11.0 million for manufacturing costs, \$4.0 million for preclinical costs and NDA filing fees. We expect to finance these future development costs of BA058 with our existing cash and cash equivalents and marketable securities and future offerings of our common stock and preferred stock. In addition, our current strategy is to collaborate with third parties for the further development and commercialization of RAD1901 and RAD140. Therefore, we do not expect that we will incur substantial future costs for these programs because we expect these costs to be borne by third parties. Our ability to further develop these product candidates will be dependent upon our ability to secure third-party collaborators, and it is not possible to project the future development costs for RAD1901 and RAD140 or possible marketing approval timeline at this time.

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The successful development of BA058-SC and BA058-TD is subject to numerous risks and uncertainties associated with developing drugs, including the variables listed below. A change in the outcome of any of these variables with respect to the development of any of our product candidates could mean a significant change in the costs and timing associated with the development of that product candidate.

BA058-SC is our only product candidate in late stage development, and our business currently depends heavily on its successful development, regulatory approval and commercialization. We have no drug products for sale currently and may never be able to develop marketable drug products. We have not submitted an NDA to the FDA or comparable applications to other regulatory authorities. Obtaining approval of an NDA is an extensive, lengthy, expensive and uncertain process, and any approval of BA058-SC may be delayed, limited or denied for many reasons, including:

- > we may experience delays in the enrollment of patients in our ongoing Phase 3 clinical trial;
- > we may not be able to demonstrate that BA058 is safe and effective as a treatment for osteoporosis to the satisfaction of the FDA;
- > the results of our clinical studies may not meet the level of statistical or clinical significance required by the FDA for marketing approval;
- > the FDA may disagree with the number, design, size, conduct or implementation of our clinical studies;
- > the CRO that we retain to conduct clinical studies may take actions outside of our control that materially adversely impact our clinical studies;
- > the FDA may not find the data from preclinical studies and clinical studies sufficient to demonstrate that BA058's clinical and other benefits outweigh its safety risks;
- > the FDA may disagree with our interpretation of data from our preclinical studies and clinical studies or may require that we conduct additional studies;
- > the FDA may not accept data generated at our clinical study sites;
- > if our NDA is reviewed by an advisory committee, the FDA may have difficulties scheduling an advisory committee meeting in a timely manner or the advisory committee may recommend against approval of our application or may recommend that the FDA require, as a condition of approval, additional preclinical studies or clinical studies, limitations on approved labeling or distribution and use restrictions;
- > the FDA may require development of a REMS as a condition of approval; or
- > the FDA may identify deficiencies in the manufacturing processes or facilities of our third-party manufacturers.

In addition, the FDA may change its approval policies or adopt new regulations. For example, on February 15, 2012, we received a letter from the FDA stating that, after internal consideration, the agency believes that a minimum of 24-month fracture data are necessary for approval of new products for the treatment of postmenopausal osteoporosis, and our ongoing BA058-SC pivotal Phase 3 clinical study is designed to produce fracture data based on an 18-month primary endpoint. Based on our discussions with the agency, we believe that continued use of the 18-month primary endpoint will be acceptable, provided that our NDA includes the 24-month fracture data derived from a 6-month extension of the BA058 80 µg and placebo groups in our Phase 3 clinical study that will receive daily oral doses of alendronate (generic Fosamax®) or other standard of care for osteoporosis management.



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We plan to file the NDA with the 18-month fracture data and supplementally provide the 24-month fracture data, when available. We cannot be certain that the FDA will not change this approval policy again, or adopt other approval policies or regulations that adversely affect any NDA that we may submit.

We are unable to determine the duration and costs to be incurred by us to continue development of RAD1901 and RAD140 until such time as we are able to secure a third party to collaborate on the further development and commercialization of these product candidates. We anticipate that we will make determinations as to which additional programs to pursue and how much funding to direct to each program on an ongoing basis in response to the scientific and clinical data of each product candidate, progress on securing third-party collaborators, as well as ongoing assessments of such product candidate's commercial potential and our ability to fund such product development. If we are unable to continue to fund the development of RAD1901 or RAD140 and are unable to secure third-party collaborators for these product candidates, our business will be adversely affected, and we will depend solely on the successful development, regulatory approval and commercialization of BA058-SC and BA058-TD.

**General and administrative expenses**

General and administrative expenses consist primarily of salaries and related expense for executive, finance and other administrative personnel, professional fees, business insurance, rent, general legal activities, including costs of maintaining our intellectual property portfolio, and other corporate expenses. We expect our general and administrative expenses to increase as a result of higher costs associated with being a public company with stock listed on the NASDAQ Global Market.

Our results include non-cash compensation expense as a result of the issuance of stock and stock option grants. Compensation expense for options granted to employees and directors (excluding directors who are also scientific advisory board members or consultants) represent the difference between the fair value of our common stock and the exercise price of the options at the date of grant. Compensation for options granted to consultants has been determined based upon the fair value of the equity instruments issued and the unvested portion of such option grants is remeasured at each reporting period. The stock-based compensation expense is included in the respective categories of expense in the statement of operations (research and development and general and administrative expenses). We expect to record additional non-cash compensation expense in the future, which may be significant.

**Interest income and interest expense**

Interest income reflects interest earned on our cash, cash equivalents and marketable securities.

Interest expense reflects interest due under a previous credit facility under which we made the final payment in 2009, and interest due under our current credit facility, which we entered into on May 23, 2011 and pursuant to which we borrowed an aggregate of \$12.5 million during the year ended December 31, 2011 and \$12.5 million during the six months ended June 30, 2012. See "Financings."

**Other income and other expense**

For the year ended December 31, 2011 and the six months ended June 30, 2012, other expense primarily reflects changes in the fair value of the series A-6 preferred stock liability from the date of the initial accrual to the reporting date as discussed in Note 16 to our financial statements for the year ended December 31, 2011 and in Note 12 to our condensed quarterly financial statements for the period ended June 30, 2012.

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**Accretion of preferred stock**

Accretion of preferred stock reflects the periodic accretions of issuance costs, dividends and the investor rights/obligations on the Former Operating Company's Series B and C redeemable convertible preferred stock and accretion of dividends on our series A-1, A-2 and A-3 convertible preferred stock.

**CRITICAL ACCOUNTING POLICIES AND ESTIMATES**

The preparation of our financial statements requires us to make certain estimates and assumptions that affect the reported amounts of assets and liabilities and expenses during the reported periods. We believe the following accounting policies are "critical" because they require us to make judgments and estimates about matters that are uncertain at the time we make the estimate, and different estimates, which would have been reasonable could have been used, which would have resulted in different financial results.

**Accrued clinical expenses**

As part of the process of preparing our financial statements, we are required to estimate our accrued expenses. This process involves reviewing open contracts and purchase orders, communicating with our personnel to identify services that have been performed on our behalf and estimating the level of service performed and the associated cost incurred for the service when we have not yet been invoiced or otherwise notified of actual cost. Payments under some of the contracts we have with parties depend on factors, such as successful enrollment of certain numbers of patients, site initiation and the completion of clinical trial milestones. Examples of estimated accrued clinical expenses include:

- > fees paid to investigative sites and laboratories in connection with clinical studies;
- > fees paid to CROs in connection with clinical studies, if CROs are used; and
- > fees paid to contract manufacturers in connection with the production of clinical study materials.

In accruing clinical expenses, we estimate the time period over which services will be performed and the level of effort to be expended in each period. If possible, we obtain information regarding unbilled services directly from these service providers. However, we may be required to estimate the cost of these services based on information available to us. If we underestimate or overestimate the cost associated with a trial or service at a given point in time, adjustments to research and development expenses may be necessary in future periods. Historically, our estimated accrued clinical expenses have approximated actual expense incurred. Subsequent changes in estimates may result in a material change in our accruals.

**Research and development expenses**

We account for research and development costs by expensing such costs to operations as incurred. Research and development costs primarily consist of personnel costs, outsourced research activities, laboratory supplies and license fees.

Nonrefundable advance payments for goods or services to be received in the future for use in research and development activities are deferred and capitalized. The capitalized amounts will be expensed as the related goods are delivered or the services are performed. If expectations change such that we do not expect we will need the goods to be delivered or the services to be rendered, capitalized nonrefundable advance payments would be charged to expense.

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**Stock-based compensation**

We recognize the fair value of employee stock-based awards using the straight-line method over the requisite service period of the award, which is typically the vesting period. We estimate the fair value of each option award using the Black-Scholes-Merton option-pricing model.

In calculating the estimated fair value of our stock options, the Black-Scholes-Merton option-pricing model requires the consideration of the following six variables for purposes of estimating fair value:

- > stock option exercise price;
- > expected term of the option;
- > grant date price of our common stock, which is issuable upon exercise of the option;
- > expected volatility of our common stock;
- > expected dividends on our common stock; and
- > risk-free interest rate for the expected option term.

The expected term of the stock options granted represents the period of time that options granted are expected to be outstanding. For options granted prior to January 1, 2008, the expected term was calculated using the "simplified" method as prescribed by the SEC's Staff Accounting Bulletin No. 107, *Share-Based Payment*. For options granted after January 1, 2008, we calculated the expected term using similar assumptions. The expected volatility is a measure of the amount by which our stock price is expected to fluctuate during the term of the options granted. We determine the expected volatility based on a review of the historical volatility of similar publicly held companies in the biotechnology field over a period commensurate with the option's expected term. We have never declared or paid any cash dividends on our common stock and we do not expect to do so in the foreseeable future. Accordingly, we use an expected dividend yield of zero. The risk-free interest rate is the implied yield available on U.S. Treasury issues with a remaining life consistent with the option's expected term on the date of grant. We apply an estimated forfeiture rate to current period expense to recognize compensation expense only for those awards expected to vest. We estimate forfeitures based upon historical data, adjusted for known trends, and will adjust the estimate of forfeitures if actual forfeitures differ or are expected to differ from such estimates. Subsequent changes in estimated forfeitures are recognized through a cumulative adjustment in the period of change and also will impact the amount of stock-based compensation expense in future periods.

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The following table presents the grant dates and related exercise prices of stock options granted from January 1, 2011 to June 30, 2012.

<b>Date of issuance</b>	<b>Nature of issuance</b>	<b>Number of shares</b>	<b>Exercise or purchase price per share</b>	<b>Per share estimated fair value of common stock(1)</b>	<b>Per share weighted average estimated fair value of options(2)</b>
November 7, 2011	Option grant	849,709	\$ 3.22	\$ 3.22	\$ 1.80
December 15, 2011	Option grant	1,981,700	\$ 3.89	\$ 3.89	\$ 2.19
April 11, 2012	Option grant	188,000	\$ 4.21	\$ 4.21	\$ 2.36
May 24, 2012	Option grant	10,000	\$ 4.21	\$ 4.21	\$ 2.36

(1) *The per share estimated fair value of common stock represents the determination by our board of directors of the fair value of our common stock as of the date of grant, taking into account various objective and subjective factors and including the results, if applicable, of valuations of our common stock as discussed below.*

(2) *Our estimate of the per share weighted average fair value for stock option grants was computed based upon the Black-Scholes-Merton option-pricing model with the assumptions through June 30, 2012 as disclosed in our financial statements included elsewhere in this Report.*

We have historically granted stock options at exercise prices not less than the fair value of our common stock as determined by our board of directors, with input from management. Our board of directors has historically determined, with input from management, the estimated fair value of our common stock on the date of grant based on a number of objective and subjective factors, including:

- > the prices at which we sold shares of convertible preferred stock;
- > the superior rights and preferences of securities senior to our common stock at the time of each grant;
- > the likelihood of achieving a liquidity event such as a public offering or sale of our company;
- > our historical operating and financial performance and the status of our research and product development efforts; and
- > the achievement of enterprise milestones, including our entering into collaboration and license agreements.

Our board of directors also considered valuations provided by management in determining the fair value of our common stock. Such valuations were prepared as of September 30, 2011, November 28, 2011 and March 31, 2012 and valued our common stock at \$3.22, \$3.89 and \$4.21 per share, respectively. The valuations have been used to estimate the fair value of our common stock as of each option grant date listed above and in calculating stock-based compensation expense. Our board of directors has consistently used the most recent valuation provided by management for determining the fair value of our common stock unless a specific event occurs that necessitates an interim valuation.

The valuations were based on the guidance from the *Valuation of Privately-Held-Company Equity Securities Issued as Compensation*, or Practice Aid, that was developed by staff of the American Institute of Certified Public Accountants and a task force comprising representatives from the appraisal, preparer, public accounting, venture capital and academic communities. The option-pricing method was selected to value our common stock based on our stage of development and the degree of uncertainty surrounding the future success of clinical trials for our product candidates.



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For the valuations prepared as of September 30, 2011, November 28, 2011 and March 31, 2012, we utilized the probability-weighted expected return method, or PWERM, as outlined in the Practice Aid, which considers the value of preferred and common stock based upon the probability-weighted present value of expected future net cash flows, considering each of the possible future events, as well as the rights and preferences of each share class. PWERM is complex as it requires numerous assumptions relating to potential future outcomes of equity, hence, the use of this method can be applied: (i) when possible future outcomes can be predicted with reasonable certainty; and (ii) when there is a complex capital structure (i.e., several classes of preferred and common stock). We utilized the fair value of common stock derived from the September 30, 2011 valuation for purposes of the November 7, 2011 option grants, the fair value of common stock derived from the November 28, 2011 valuation for purposes of the December 15, 2011 option grants and the fair value of common stock derived from the March 31, 2012 valuation for purposes of the April 11, 2012 and May 24, 2012 option grants. We concluded, for purposes of the November 7, 2011 grants, that there were no significant changes to the assumptions used in the PWERM model between September 30, 2011 and November 7, 2011 that would impact the fair value of our common stock. We concluded, for purposes of the December 15, 2011 grants, that there were no significant changes to the assumptions used in the PWERM model between November 28, 2011 and December 15, 2011 that would impact the fair value of our common stock. We concluded, for purposes of the April 11, 2012 and May 24, 2012 grants, that there were no significant changes to the assumptions used in the PWERM model between March 31, 2012 and April 11, 2012 and May 24, 2012 that would impact the fair value of the common stock. We also used this methodology to estimate the fair value of our preferred stock, which we used in the preferred stock extinguishment, discussed in Note 4 to our financial statements for the year ended December 31, 2011, and to determine the fair value of shares of series A-6 convertible preferred stock due to Nordic at December 31, 2011, as discussed in Note 16 to our financial statements for the year ended December 31, 2011.

**Fair value measurements**

We define fair value as the price that would be received to sell an asset or be paid to transfer a liability in an orderly transaction between market participants at the measurement date. We determine fair value based on the assumptions market participants use when pricing the asset or liability. We also use the fair value hierarchy that prioritizes the information used to develop these assumptions.

The fair value hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets (Level 1), and the lowest priority to unobservable inputs (Level 3). Our financial assets are classified within the fair value hierarchy based on the lowest level of input that is significant to the fair value measurement. The three levels of the fair value hierarchy, and its applicability to our financial assets, are described below:

*Level 1* Unadjusted quoted prices in active markets that are accessible at the measurement date of identical, unrestricted assets.

*Level 2* Quoted prices for similar assets, or inputs that are observable, either directly or indirectly, for substantially the full term through corroboration with observable market data. Level 2 includes investments valued at quoted prices adjusted for legal or contractual restrictions specific to the security.

*Level 3* Pricing inputs are unobservable for the asset, that is, inputs that reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset. Level 3 includes private investments that are supported by little or no market activity.

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Our financial assets are classified as Level 1, Level 2 and Level 3 assets as of December 31, 2011 and 2010 and June 30, 2012. The carrying amounts of our financial instruments, which include cash equivalents, marketable securities, accounts payable and accrued expenses, approximate their estimated fair values as of December 31, 2011 and 2010 and June 30, 2012. Money market funds are valued using quoted market prices with no valuation adjustments applied. Accordingly, these securities are categorized as Level 1. Assets utilizing Level 2 inputs include government agency securities, including direct issuance bonds, and corporate bonds. These assets are valued using third-party pricing resources which generally use interest rates and yield curves observable at commonly quoted intervals of similar assets as observable inputs for pricing. Our assets utilizing Level 3 inputs are valued based upon the fair value of our series A-6 preferred stock.

Fair value for Level 1 is based on quoted market prices. Fair value for Level 2 is based on quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active and model-based valuation techniques for which all significant assumptions are observable in the market or can be corroborated by observable market data for substantially the full term of the assets. Inputs are obtained from various sources including market participants, dealers and brokers. Fair value for Level 3 is based upon the fair values determined using PWERM, as discussed above.

We have assets and liabilities that are estimated based upon the fair value of our common and preferred stock, as determined using PWERM, as described above. These assets and liabilities require Level 3 inputs. As of June 30, 2012, we have a stock dividend asset of approximately \$3.7 million, a warrant liability of approximately \$0.9 million, and an other liability ("stock liability") of approximately \$17.5 million; the fair value for each of which is determined by Level 3 inputs being the fair value of our common and preferred stock, as discussed in Note 7 to our financial statements for the year ended December 31, 2011 and in Note 6 to our condensed quarterly financial statements for the period ended June 30, 2012.

The stock dividend asset represents the prepaid balance of the accrued stock dividend ("other liability" or "stock liability") to issue shares of series A-6 to Nordic, as discussed in Note 16 to our financial statements for the year ended December 31, 2011, and the amount of research and development expense related to stock dividend amounts being recognized ratably over the estimated per patient treatment period. The fair value of the stock liability is based upon the fair value of the series A-6 shares as determined using the PWERM as discussed above. As such the valuation of the stock dividend and other current asset was determined to be a Level 3 valuation.

The warrant liability represents the liability for the warrants issued to the placement agent in connection with the series A-1 financings, as discussed in Note 4 to our financial statements for the year ended December 31, 2011, and to the lenders in connection with our credit facility, as discussed in Note 4 to our financial statements for the year ended December 31, 2011. The warrant liability is calculated using the Black-Scholes-Merton option pricing method. This method of valuation includes using inputs such as the valuation of our various classes of preferred stock, historical volatility, the term of the warrant and risk-free interest rates. The fair value of our shares of common and preferred stock was estimated using PWERM, as described above. As such the valuation of the warrant liability was determined to be a Level 3 valuation.

The other liability represents the liability to issue shares of series A-6 preferred stock to Nordic for services rendered in connection with the Phase 3 clinical study of BA058-SC, as discussed in Note 16 to our financial statements for the year ended December 31, 2011. The liability is calculated based upon the number of shares earned by Nordic through the performance of clinical trial services multiplied by the estimated fair value of our series A-6 preferred stock at each reporting date. The

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estimated fair value of our series A-6 preferred stock is determined using PWERM, as described above. As such the valuation of the other liability was determined to be a Level 3 valuation.

As of December 31, 2011, Level 3 assets and Level 3 liabilities represent approximately 5% and 17% of our total assets, respectively. As of June 30, 2012, Level 3 assets and Level 3 liabilities represent approximately 7% and 35% of our total assets, respectively. The other liability ("stock liability") balance will continue to increase until we issue the accrued shares of series A-6 to Nordic, as discussed in Note 16 to our financial statements for the year ended December 31, 2011 and Note 12 to our condensed quarterly financial statements for the period ended June 30, 2012. The stock dividend and other current asset balance will fluctuate with the stock liability and amount of research and development expense related to stock dividend amounts being recognized ratably over the estimated per patient treatment period. Increases and decreases in the aggregate fair value of these assets and liabilities will affect net loss as changes in fair value are recognized as other income (expense), but the changes will not significantly impact our liquidity and capital resources.

**RESULTS OF OPERATIONS**

The discussion under "Results of Operations" discusses results for the year ended December 31, 2011 in comparison with the years ended December 31, 2010 and 2009 and the six months ended June 30, 2012 in comparison with the six months ended June 30, 2011. The results for the years ended December 31, 2010 and 2009 and the six months ended June 30, 2011 are the results of the Former Operating Company. The results for the year ended December 31, 2011 include our pre- and post-Merger results. The results for the six months ended June 30, 2012 are post-Merger results.

	Years ended December 31,			Six months ended June 30,	
	2011	2010	2009	2012	2011
Revenue:					
Option Fee	\$	\$	\$ 1,616	\$	\$
Operating expenses:					
Research and development	36,179	11,692	14,519	24,366	20,689
General and administrative	5,330	3,630	2,668	4,291	1,842
Restructuring		217			
Loss from operations	(41,509)	(15,539)	(15,571)	(28,657)	(22,531)
Other income (expense):					
Other income (expense), net	(236)	824	(7)	(1,184)	22
Interest income (expense), net	(731)	85	489	(992)	(88)
Net loss	\$ (42,476)	\$ (14,630)	\$ (15,089)	\$ (30,833)	\$ (22,597)

**Six months ended June 30, 2012 and 2011**

	Six months ended June 30,		Change	
	2012	2011	\$	%
(In thousands)				
Operating expenses:				
Research and development	\$ 24,366	\$ 20,689	\$ 3,677	18%
General and administrative	4,291	1,842	2,449	133%

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*Research and development expenses:* For the six months ended June 30, 2012, research and development expense was \$24.4 million compared to \$20.7 million for the six months ended June 30, 2011, an increase of \$3.7 million or 18%. For the six months ended June 30, 2012, we incurred professional contract services associated with the development of BA058-SC of \$20.2 million compared to \$16.8 million for the six months ended June 30, 2011. The increase was primarily the result of expenses incurred for continuing enrollment of patients in our Phase 3 study of BA058-SC, which began with the dosing of patients in April 2011. We expect this higher level of BA058-SC expenses to be maintained or increase over the course of the Phase 3 study. However, there will be variability from quarter to quarter driven primarily by the rate of patient enrollment, the euro/dollar exchange rate, and fluctuations in the value of our stock issued to Nordic under a stock issuance agreement between us and Nordic, or the Stock Issuance Agreement. Offsetting these increases, we incurred \$550,000 less in contract services associated with the development of BA058-TD in relation to the manufacture of Phase 2 clinical supplies.

*General and administrative expenses:* For the six months ended June 30, 2012, general and administrative expense was \$4.3 million compared to \$1.8 million for the six months ended June 30, 2011, an increase of \$2.4 million or 133%. The increase is primarily the result of increased legal fees, including costs associated with maintaining our intellectual property portfolio and costs associated with being a public reporting company, and additional personnel.

*Other income (expense):* For the six months ended June 30, 2012, other expense, net of other income, was \$1.2 million. Other expense primarily reflects changes in the fair value of the series A-6 preferred stock liability from the date of the initial accrual to the reporting date as discussed in Note 12 to our condensed quarterly financial statements for the period ended June 30, 2012.

*Interest income (expense), net:* For the six months ended June 30, 2012, interest expense, net of interest income was \$1.0 million. Interest expense reflects interest due on our loan and security agreement with Oxford Finance LLC and GECC that was effective on May 23, 2011.

**Years ended December 31, 2011 and 2010**

Years ended December 31,		Change	
2011	2010	\$	%

(dollars in thousands)

<b>Operating expenses:</b>				
Research and development	\$ 36,179	\$ 11,692	\$ 24,487	209%
General and administrative	5,330	3,630	1,700	47%
Restructuring		217	(217)	(100)%

*Revenue:* There was no revenue for the years ended December 31, 2011 or 2010.

*Research and development expenses:* For the year ended December 31, 2011, research and development expense was \$36.2 million compared to \$11.7 million for the year ended December 31, 2010, an increase of \$24.5 million or 209%. For the year ended December 31, 2011, we incurred professional contract services associated with the development of BA058-SC of \$27.0 million compared to \$4.7 million for the year ended December 31, 2010. The increase was primarily the result of expenses incurred in connection with the initiation of our Phase 3 study of BA058-SC, which began with the dosing of patients in April 2011. We expect this higher level of BA058-SC expenses to be maintained or increase over the course of the Phase 3 study, for which we expect to report top-line 18-month fracture data in the fourth quarter of 2014. However, there will be variability from year to

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year driven primarily by the rate of patient enrollment, the euro/dollar exchange rate and fluctuations in the value of our stock issued to Nordic under the Stock Issuance Agreement. Additionally, for the year ended December 31, 2011, as compared to the year ended December 31, 2010, we incurred \$4.5 million more in contract services associated with the development of BA058-TD in relation to the manufacture of toxicology and Phase 2 clinical supplies. These increases during the year ended December 31, 2011 were offset by a reduction of \$290,000 on RAD140 spending, and a reduction of \$1.6 million in professional contract services associated with the development of RAD1901 due to the completion of the Phase 2a study of RAD1901 in early 2010. We also had reductions in facilities expenses of approximately \$436,000 for the year ended December 31, 2011 compared to the year ended December 31, 2010. These reductions were attributable to the closure of a laboratory facility in September 2010.

*General and administrative expenses:* For the year ended December 31, 2011, general and administrative expense was \$5.3 million compared to \$3.6 million for the year ended December 31, 2010, an increase of \$1.7 million or 47%. The increase is primarily the result of increased legal, accounting, and marketing costs, as well as business insurance, related to public company reporting.

*Restructuring expenses:* We incurred restructuring costs of approximately \$217,000 in the year ended December 31, 2010, primarily related to lease termination costs associated with vacating our laboratory space. No similar costs were incurred in the year ended December 31, 2011.

*Other income (expense), net:* For the year ended December 31, 2011, other expense, net of other income, was \$236,000, which primarily reflects changes in the fair value of the series A-6 preferred stock liability from the date of the initial accrual to the reporting date as discussed in Note 16 to our financial statements for the period ended December 31, 2011. No similar costs were incurred in the year ended December 31, 2010. For the year ended December 31, 2010, we had other income, net of other expense, of \$824,000, which was primarily comprised of approximately \$733,000 of grant proceeds from the Internal Revenue Service pursuant to the qualifying therapeutic discovery grant program and approximately \$149,000 in proceeds from the sale of equipment. We did not receive grant proceeds or sell equipment during the year ended December 31, 2011.

*Interest income (expense), net:* For the year ended December 31, 2011, interest expense, net of interest income, was \$731,000 compared to interest income, net of interest expense, of \$85,000 for the year ended December 31, 2010. Interest expense for the year ended December 31, 2011 reflects interest accrued on our credit facility.

**Years ended December 31, 2010 and 2009**

*Revenue:* For the year ended December 31, 2010, revenue was \$0 compared to \$1.6 million for the year ended December 31, 2009. The revenue in 2009 relates solely to an option agreement signed with Novartis in 2007 pursuant to which Novartis obtained an option to license the exclusive worldwide rights (except Japan) to all formulations of BA058. Revenue was recognized ratably over the option period based on criteria specified in the agreement. The period of option exclusivity expired in 2009 without exercise by Novartis.

	Years ended		Change	
	December 31,		\$	%
	2010	2009		
(dollars in thousands)				
Operating expenses:				
Research and development	\$ 11,692	\$ 14,519	\$ (2,827)	(19)%
General and administrative	3,630	2,668	962	36%
Restructuring	217		217	100%

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*Research and development expenses:* For the year ended December 31, 2010, research and development expense was \$11.7 million compared to \$14.5 million for the year ended December 31, 2009, a decrease of \$2.8 million or 19%. For the year ended December 31, 2010, we incurred professional contract services associated with the development of BA058-SC of approximately \$4.6 million compared to approximately \$3.7 million for the year ended December 31, 2009. The increase is attributable to a \$1.0 million up-front payment to Nordic for Phase 3 study expenses. Offsetting these increases, we incurred \$1.0 million less in contract services associated with the development of BA058-TD. The decrease was mainly the result of the completion of the feasibility agreement with 3M for BA058-TD in 2009. Additionally, we spent \$1.7 million less on RAD140 and \$531,000 less on RAD1901 for professional contract services in the year ended December 31, 2010 compared to the year ended December 31, 2009 as we evaluated strategic options of the further development of these programs. Lastly, we experienced reductions in stock-based and other compensation of approximately \$125,000, professional fees of approximately \$234,000, and facility and other miscellaneous costs of approximately \$256,000, for the year ended December 30, 2010 compared to the year ended December 31, 2009. The reduction in compensation was the result of the achievement of certain milestones that generated higher stock-based compensation in 2009. The reduction in professional fees, facilities, and miscellaneous other costs was related to the curtailment of costs for the RAD140 and RAD1901 programs.

*General and administrative expenses:* For the year ended December 31, 2010, general and administrative expense was \$3.6 million compared to \$2.7 million for the year ended December 31, 2009, an increase of approximately \$1.0 million or 36%. The increase was attributable to an increase in compensation of approximately \$279,000 and professional fees of approximately \$715,000. The increase in compensation consisted mainly of management bonuses which were higher in 2010 than in 2009. The increase in professional fees included legal and accounting fees. These increases were offset by reductions in other individually insignificant accounts.

*Restructuring:* We incurred restructuring costs of approximately \$217,000 in the year ended December 31, 2010 related to lease termination costs associated with vacating our laboratory space. No similar costs were incurred in the year ended December 31, 2009.

*Other income (expense), net:* Other income, net of other expense, of \$824,000 at December 31, 2010 was primarily comprised of approximately \$733,000 of grant proceeds from the Internal Revenue Service pursuant to the qualifying therapeutic discovery grant program and approximately \$149,000 in proceeds from the sale of equipment.

*Interest income (expense), net:* Interest income decreased approximately \$404,000 from \$489,000 in the year ended December 31, 2009 to \$85,000 in the year ended December 31, 2010. The decrease is attributable to a lower average cash equivalents and marketable securities balance in 2010.

**LIQUIDITY AND CAPITAL RESOURCES**

From inception to June 30, 2012, we have incurred an accumulated deficit of \$156.1 million, primarily as a result of expenses incurred through a combination of research and development activities related to our various product candidates and expenses supporting those activities.

We have financed our operations since inception primarily through the private sale of preferred stock as well as the receipt of \$5.0 million in fees associated with an option agreement. We have also borrowed \$25.0 million under our credit facility in three term loans. See "Financings." Our total cash, cash equivalents and marketable securities balance was \$45.9 million as of June 30, 2012.

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The following table sets forth the major sources and uses of cash for each of the periods set forth below:

	Year ended December 31,			Six months ended June 30,	
	2011	2010	2009	2012	2011
(In thousands)					
Net cash provided by (used in):					
Operating activities	\$ (35,896)	\$ (12,986)	\$ (18,293)	\$ (22,406)	\$ (19,625)
Investing activities	(23,800)	15,670	17,623	4,508	7,948
Financing activities	74,242	2	(8)	11,602	26,431
Net increase (decrease) in cash and cash equivalents					
	\$ 14,546	\$ 2,686	\$ (678)	\$ (6,296)	\$ 14,754

**Cash flows from operating activities**

Net cash used in operations for the six months ended June 30, 2012 was \$22.4 million, an increase of \$2.8 million or 14% from the six months ended June 30, 2011. The increase of \$2.8 million in net cash used in operations for the six months ended June 30, 2012 compared to the six months ended June 30, 2011 was primarily attributed to a \$3.7 million increase in research and development expense, which is primarily the result of expenses incurred for continuing enrollment of patients in our Phase 3 study for BA058-SC, which began dosing patients in April 2011. We expect this higher level of BA058-SC expenses to be maintained or increase over the course of the Phase 3 study.

Net cash used in operations for the year ended December 31, 2011 was \$35.9 million, an increase of \$22.9 million or 176% from the year ended December 31, 2010. The increase of \$22.9 million in net cash used in operations for the year ended December 31, 2011 compared to the year ended December 31, 2010 was primarily associated with an increase in net loss and net changes in working capital related to expenses incurred in connection with the initiation of the Phase 3 clinical study for BA058-SC, offset by adjustments to reconcile net loss to net cash used in operations, including non-cash expenses of \$10.3 million and \$1.4 million for research and development expenses to be settled in stock and a milestone payment settled with stock, respectively. The changes in working capital included a \$6.5 million increase in prepaid expenses, a \$301,000 decrease in accounts payable offset by an \$819,000 increase in accrued expenses, all of which were attributable due to the timing of payments made in connection with our Phase 3 clinical study for BA058-SC.

Net cash used in operations for the year ended December 31, 2010 was \$13.0 million, a decrease of \$5.3 million or 29% from the year ended December 31, 2009. The decrease of \$5.3 million in net cash used in operations for the year ended December 31, 2010 compared to the year ended December 31, 2009 was primarily associated with a \$459,000 decrease in net loss and net changes in working capital, including a \$1.5 million increase in accrued expenses related to preparations to initiate the Phase 3 clinical study for BA058-SC, a \$94,000 decrease in the accounts payable in comparison with a \$1.1 million decrease for the year ended December 31, 2009, and no change to deferred revenue in comparison with a decrease of \$1.6 million in deferred revenue due to the expiration of the Novartis option agreement in the year ended December 31, 2009.

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**Cash flows from investing activities**

Net cash provided by investing activities decreased \$3.4 million for the six months ended June 30, 2012 compared to the six months ended June 30, 2011. The decrease was the result of a decrease in cash proceeds from the sales and maturities of short-term investments, net of purchases, in the six months ended June 30, 2012.

Net cash provided by investing activities decreased by \$39.5 million for the year ended December 31, 2011 compared to the year ended December 31, 2010. The decrease was primarily a result of a \$39.2 million decrease in cash proceeds from the maturities of investments, net of purchases, in the year ended December 31, 2011.

Net cash provided by investing activities decreased by \$2.0 million for the year ended December 31, 2010 compared to the year ended December 31, 2009. The decrease was primarily a result of a \$2.1 million decrease in net cash proceeds from the sales and maturities of investments, net of purchases, in the year ended December 31, 2010, offset by \$149,000 in proceeds from the sale of equipment.

Our investing cash flows will be impacted by the timing of purchases and sales of marketable securities. All of our marketable securities have contractual maturities of less than one year. Due to the short-term nature of our marketable securities, we would not expect our operational results or cash flows to be significantly affected by a change in market interest rates due to the short-term duration of our investments.

**Cash flows from financing activities**

Our financing activities provided cash of \$11.6 million and \$26.4 million for the six months ended June 30, 2012 and June 30, 2011, respectively. The cash provided by financing activities for the six months ended June 30, 2012 consists of \$12.5 million of net proceeds from our note payable and \$258,000 of net proceeds from stock option exercises, offset by \$1.1 million of payments on our notes payable. The cash provided by financing activities for the six months ended June 30, 2011 consists of \$20.5 million of net proceeds from the issuance of common stock, \$5.9 million of net proceeds from our note payable and \$152,000 of net proceeds from stock option exercises.

Cash flows from financing activities for the year ended December 31, 2011 included \$62.1 million of proceeds, net of issuance costs, from the series A-1 and series A-5 financings, \$12.1 million of proceeds, net of issuance costs, from our credit facility and \$204,000 of net proceeds from stock option exercises, offset by \$156,000 of payments under our credit facility. We did not have significant cash flows from financing activities for the years ended December 31, 2010 and 2009.

Our continued operations will depend on whether we are able to raise additional funds through various potential sources, such as equity and debt financing and potential collaboration agreements. Through June 30, 2012, almost all of our financing has been through private placements of preferred stock and borrowings under our credit facility. We will seek to continue to fund operations from cash on hand, the proceeds of this offering and through additional equity and/or debt financing and potential collaboration agreements. We can give no assurances that any additional capital that we are able to obtain will be sufficient to meet our needs. We believe that the proceeds from this offering, together with our existing resources, will be sufficient to fund our planned operations until the end of the first quarter of 2014. We have based this estimate on assumptions that may prove to be wrong, and we could use our available capital resources sooner than we currently expect. After such date, we will need additional financing until we can achieve profitability, if ever, including funds to conduct clinical and non-clinical studies, achieve regulatory approvals and, subject to such approvals,

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commercially launch our product candidates. Our future capital requirements will depend on many factors, including the scope and progress made in our research and development activities and our clinical studies. We may also need additional funds for possible future strategic acquisitions of businesses, products or technologies complementary to our business. If additional funds are required, we may raise such funds from time to time through public or private sales of equity or from borrowings. Financing may not be available on acceptable terms, or at all, and our failure to raise capital when needed could materially adversely impact our growth plans and our financial condition and results of operations. Additional equity financing may be dilutive to the holders of our common stock and debt financing, if available, may involve significant cash payment obligations and covenants that restrict our ability to operate our business.

**Financings**

Through June 30, 2012, we received aggregate net cash proceeds of \$168.0 million from the sale of shares of our preferred stock as follows:

Issue	Year	No. of shares(1)	Net proceeds (in thousands)
Series B redeemable convertible preferred stock	2003, 2004, 2005	1,599,997	\$ 23,775
Series C redeemable convertible preferred stock	2006, 2007, 2008	10,146,629	82,096
Series A-1 convertible preferred stock	2011	9,223,041	61,591
Series A-5 convertible preferred stock	2011	64,430	525
<b>Total</b>		<b>21,034,097</b>	<b>\$ 167,987</b>

(1) *Share amounts stated in pre-Merger shares, which converted into the rights to one-tenth of one share pursuant to the Merger.*

On May 11, 2011, accredited investors in a series A-1 convertible preferred stock financing, or the Series A-1 Private Placement, entered into an irrevocable legally binding commitment to purchase approximately \$64.3 million of series A-1 preferred stock in three closings. The first closing, or the Stage I Closing, of the Series A-1 Private Placement occurred on May 17, 2011 and resulted in gross proceeds of approximately \$21.4 million through the sale of 2,631,845 shares of the Former Operating Company's series A-1 convertible preferred stock. Those shares were exchanged in the Merger for an aggregate of 263,177 shares of series A-1 preferred stock. Each share of the series A-1 preferred stock is convertible into ten shares of our common stock. The second closing, or Stage II Closing, occurred on November 18, 2011, and we received gross proceeds of approximately \$21.4 million through the sale of 263,178 shares of series A-1 preferred stock. The third closing, or Stage III Closing, occurred on December 14, 2011, and we received gross proceeds of approximately \$21.4 million through the sale of 263,180 shares of series A-1 preferred stock. In connection with the consummation of the Stage I Closing, Stage II Closing and the Stage III Closing, Leerink Swann LLC received, on May 17, 2011, November 18, 2011 and December 14, 2011, warrants, which are currently exercisable at any time and expiring five (5) years from the date of issuance, at a purchase price of \$81.42 per share, for up to a total of 2,454 shares of series A-1 preferred stock. After the automatic conversion of the preferred stock upon the listing of our common stock on the NASDAQ Global Market, these warrants will be exercisable for a total of 24,540 shares of common stock at a purchase price of \$8.142 per share.

Concurrently with the Stage I Closing, the Former Operating Company issued 64,430 shares of series A-5 preferred stock to Nordic for gross proceeds of approximately \$525,000. These shares were exchanged in the Merger for 6,443 shares of our series A-5 convertible preferred stock, which shares

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will convert automatically upon the listing of the common stock on the NASDAQ Global Market into 64,430 shares of common stock.

On May 23, 2011, we entered into our credit facility with GECC, as agent and a lender, and Oxford Finance LLC, as a lender, consisting of three term loans, pursuant to which we may draw an aggregate of \$25.0 million. We drew \$6.3 million under the initial term loan on May 23, 2011. The initial term loan is repayable over a term of 42 months, including a six-month interest-only period, and bears interest at 10.16% per year. We drew \$6.3 million under the second term loan on November 21, 2011. The second term loan is repayable over a term of 36 months, including an approximately six-month interest-only period, and bears interest at 10.0% per year. We drew \$12.5 million under the third term loan on May 29, 2012. The third term loan is repayable over a term of 30 months, including an approximated six-month interest-only period, and bears interest at 10.0% per year. On each of May 23, 2011, November 21, 2011 and May 29, 2012, we issued warrants to GECC and Oxford Finance LLC for the purchase of up to a total 12,280 shares of series A-1 preferred stock, which will become exercisable for 122,800 shares of common stock at a purchase price of \$8.142 per share after the listing of our common stock on the NASDAQ Global Market. The exercise period of each warrant is 10 years from the date of issuance.

**Research and development agreements**

We entered into a letter of intent with Nordic on September 3, 2010, pursuant to which we funded preparatory work by Nordic in respect of a Phase 3 clinical study of BA058-SC. The letter of intent was extended on December 15, 2010 and on January 31, 2011. On March 29, 2011, we and Nordic entered into a Clinical Trial Services Agreement, a Work Statement NB-1, or the Work Statement, under such Clinical Trial Services Agreement and a related Stock Issuance Agreement. Pursuant to the Work Statement, Nordic is managing the Phase 3 clinical study of BA058-SC and Nordic will be compensated for such services in a combination of cash and shares of series A-6 convertible preferred stock, or after the automatic conversion into common stock of our convertible preferred stock, in shares of common stock.

In December 2011, we entered into an amendment to the Work Statement, or the First Amendment. Pursuant to the original terms of the Work Statement, the study was to be conducted in 10 countries at a specified number of sites within each country. The terms of the First Amendment provide for two additional countries (the United States and India) in which the study will be conducted, specify a certain number of sites within each such additional country for the conduct of the study, and amend various terms and provisions of the Work Statement to reflect the addition of such countries and sites within the study's parameters. Payments to be made by us to Nordic under the First Amendment in connection with the conduct of the study in such additional countries are denominated in both euros and U.S. dollars and total up to both €717,700 (\$909,182) and \$289,663, respectively, for the 15 additional study sites in India contemplated by the First Amendment and up to both €1.2 million (\$1.5 million) and \$143,369, respectively, for the five additional study sites in the United States contemplated by the First Amendment.

In June 2012, we entered into a second amendment to the Work Statement, or the Second Amendment. Pursuant to the original terms of the Work Statement, as amended by the First Amendment, the study was to be conducted in 12 countries at a specified number of sites within each country. The terms of the Second Amendment (i) increase the overall number of sites by adding sites in Europe, Brazil and Argentina and removing other sites, (ii) specify a certain number of sites within each country for the conduct of the study, and (iii) amend various terms and provisions of the Work Statement to reflect additional services provided at existing sites and the addition of the new study sites within the study's parameters. The Second Amendment also provided that cash payments to

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Nordic under the Clinical Trial Services Agreement as well as the payment of shares of series A-6 preferred stock under the related Stock Issuance Agreement shall each be reduced by an amount of €11,941 (\$15,127) per subject for any subjects enrolled in India or the United States. Such reductions shall be applied in pro rata monthly installments. Payments to be made by us to Nordic under the Second Amendment in connection with the extra services provided at existing sites and the conduct of the study at the new study sites are denominated in both euros and U.S. dollars and total €3.7 million (\$4.7 million) and \$205,540, respectively.

Pursuant to the Work Statement, we are required to make certain per patient payments denominated in both euros and U.S. dollars for each patient enrolled in the BA058-SC Phase 3 clinical study followed by monthly payments for the duration of the study and final payments in two equal euro-denominated installments and two equal U.S. dollar-denominated installments. Changes to this clinical study schedule may alter the timing, but not the aggregate amounts, of the payments. The Work Statement, as amended on December 9, 2011 and June 18, 2012, provides for a total of approximately €41.2 million (\$52.1 million) of euro-denominated payments and a total of up to approximately \$3.2 million of U.S. dollar-denominated payments over the course of the clinical study.

Pursuant to the Stock Issuance Agreement, as amended, Nordic agreed to purchase the equivalent of €371,864 of series A-5 preferred stock at \$8.142 per share, and we sold 64,430 shares of series A-5 preferred stock to Nordic on May 17, 2011 for proceeds of \$525,154 to the Former Operating Company. These shares were exchanged in the Merger for an aggregate of 6,443 shares of our series A-5 convertible preferred stock.

The Stock Issuance Agreement provides that Nordic is entitled to receive quarterly stock dividends, payable in shares of series A-6 convertible preferred stock or shares of common stock if our preferred stock has been automatically converted into common stock in accordance with our certificate of incorporation, having an aggregate value of up to €36.8 million (\$46.6 million), or the series A-5 Accruing Dividend. This right to receive the series A-5 Accruing Dividend is non-transferrable and will remain with Nordic in the event it sells the shares of series A-5 preferred stock or in the event the shares of series A-5 preferred stock are converted into common stock in accordance with our certificate of incorporation. As of June 30, 2012, 244,834 shares of series A-6 preferred stock are due to Nordic, or, after the automatic conversion into common stock of our convertible preferred stock, 2,448,340 shares of common stock.

On July 26, 2012, we entered into a Letter of Intent, or the Letter of Intent, with Nordic, which provides that we and Nordic will, subject to our compliance with certain requirements of our certificate of incorporation and applicable securities laws, negotiate in good faith to enter into (1) a Work Statement NB-2, or the Work Statement NB-2, and (2) an amendment to the Stock Issuance Agreement. The Work Statement NB-2 is contemplated by the terms of the Work Statement under the Clinical Trial Services Agreement.

The Letter of Intent further provides that Nordic will begin providing clinical trial services relating to the Phase 2 clinical study of our BA058 Transdermal product, as contemplated by the Work Statement and the draft Work Statement NB-2. Payments in cash to be made by us to Nordic under the Letter of Intent in connection with the services to be provided are denominated in both euros and U.S. dollars and total up to €3.5 million (\$4.4 million) and \$257,856, respectively. In addition, we will issue to Nordic, subject to the execution of the Work Statement NB-2 and the Stock Issuance Agreement Amendment, shares of our series A-6 preferred stock having a value of at least \$2.9 million, as additional payment for services to be provided under the Work Statement NB-2 and the Work Statement.

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The Letter of Intent will terminate on the earlier of (1) the date on which we and Nordic enter into the Work Statement NB-2 and the Stock Issuance Agreement Amendment and (2) October 15, 2012 (pursuant to an extension mutually agreed to by us and Nordic).

We recorded \$11.0 million of research and development expense in the year ended December 31, 2011 reflecting costs incurred for preparatory and other start-up costs to initiate the BA058-SC Phase 3 clinical study in April 2011. We recorded an additional \$5.1 million of research and development expense in the year ended December 31, 2011, for per-patient costs incurred for patients that had enrolled in this clinical study as of December 31, 2011. As of December 31, 2011, in addition to the \$10.5 million liability that is reflected in other liabilities on the Balance Sheet that will be settled in shares of series A-6 preferred stock or common stock, as noted above, we have an asset resulting from payments to Nordic of approximately \$5.2 million that is included in prepaid expenses on the Balance Sheet.

We recorded \$11.8 million of research and development expense in the six months ended June 30, 2012 for per-patient costs incurred for patients that had enrolled in the Phase 3 study as of June 30, 2012. As of June 30, 2012, in addition to the \$17.5 million liability that is reflected in other liabilities on our balance sheet that will be settled in shares of series A-6 preferred stock or common stock, as noted above, we have an asset resulting from payments to Nordic of approximately \$4.6 million that is included in prepaid expenses on our balance sheet.

We are also responsible for certain pass through costs in connection with the BA058-SC Phase 3 clinical study. We recognized research and development expense of \$5.0 million for pass through costs in the year ended December 31, 2011 and \$4.9 million of research and development expense for pass through costs during the six months ended June 30, 2012.

**License agreement obligations**

*BA058.* In September 2005, we exclusively licensed the worldwide rights (except Japan) to BA058 and analogs from Ipsen, including US Patent No. 5,969,095, (effective filing date March 29, 1996, statutory term expires March 29, 2016) entitled "Analogues of Parathyroid Hormone" that claims BA058 and US Patent No. 6,544,949 (effective filing date March 29, 1996, statutory term expires March 29, 2016) entitled "Analogues of Parathyroid Hormone" that claims methods of treating osteoporosis using BA058 and pharmaceutical compositions comprising BA058, and the corresponding foreign patents and continuing patent applications. In addition, we have rights to joint intellectual property related to BA058, including rights to the jointly derived intellectual property contained in US Patent No. 7,803,770 (effective filing date October 3, 2007, statutory term extended to March 26, 2028 with 175 days of patent term adjustment due to delays in patent prosecution by the USPTO), US Patent No. 8,148,333 (effective filing date October 3, 2007, statutory term extended to November 8, 2027 with 36 days of patent term adjustment due to delays in patent prosecution by the USPTO) and related patents and patent applications both in the United States and worldwide that cover the method of treating osteoporosis using the Phase 3 clinical study dosage strength and form. In consideration for the rights to BA058 and in recognition of certain milestones having been met as of December 31, 2011, we have paid to Ipsen an aggregate amount of \$1.0 million. The license agreement further requires us to make payments upon the achievement of certain future clinical and regulatory milestones. The range of milestone payments that could be paid under the agreement is €10.0 million to €36.0 million (\$12.7 million to \$45.6 million). Should BA058 become commercialized, we or our sublicensees will be obligated to pay to Ipsen a fixed five percent royalty based on net sales of the product on a country by country basis until the later of the last to expire of the licensed patents or for a period of 10 years after the first commercial sale in such country. The date of the last to expire of the BA058 patents, barring any extension thereof, is expected to be March 26, 2028. In the event that

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we sublicense BA058 to a third party, we are obligated to pay a percentage of certain payments received from such sublicensee (in lieu of milestone payments not achieved at the time of such sublicense). The applicable percentage is in the low double-digit range. In addition, if we or our sublicensees commercialize a product that includes a compound discovered by us based on or derived from confidential Ipsen know-how, we will be obligated to pay to Ipsen a fixed low single-digit royalty on net sales of such product on a country-by-country basis until the later of the last to expire of our patents that cover such product or for a period of 10 years after the first commercial sale of such product in such country. Effective May 11, 2011, Ipsen agreed to accept shares of series A-1 preferred stock in lieu of a cash milestone payment of €1.0 million. We issued 173,263 shares of series A-1 preferred stock to Ipsen on May 17, 2011 to settle the liability. These shares were exchanged in the Merger for an aggregate of 17,326 shares of series A-1 convertible preferred stock and upon the listing of our common stock on the NASDAQ Global Market will convert automatically into 173,260 shares of common stock. The license agreement contains other customary clauses and terms as are common in similar agreements in the industry.

*RAD1901.* In June 2006, we exclusively licensed the worldwide rights (except Japan) to RAD1901 from Eisai Co. Ltd., or Eisai. In particular, we have licensed US Patent No. 7,612,114 (effective filing date December 25, 2003, statutory term extended to August 18, 2026 with 967 days of patent term adjustment due to delays by the USPTO). In consideration for the rights to RAD1901 and in recognition of certain milestones having been met to date, we have paid to Eisai an aggregate amount of \$1.5 million. The range of milestone payments that could be paid under the agreement is \$1.0 million to \$20.0 million. The license agreement further requires us to make payments upon the achievement of certain future clinical and regulatory milestones. Should RAD1901 become commercialized, we will be obligated to pay to Eisai a royalty in a variable mid-single digit range based on net sales of the product on a country by country basis for a period that expires on the later of (i) date the last remaining valid claim in the licensed patents expires, lapses or is invalidated in that country, the product is not covered by data protection clauses, and the sales of lawful generic version of the product account for more than a specified percentage of the total sales of all pharmaceutical products containing the licensed compound in that country; or (ii) a period of 10 years after the first commercial sale of the licensed products in such country, unless it is sooner terminated. The latest valid claim is expected to expire, barring any extension thereof, on August 18, 2026. The royalty rate shall then be subject to reduction and the royalty obligation will expire at such time as sales of lawful generic version of such product account for more than a specified minimum percentage of the total sales of all products that contain the licensed compound. We were also granted the right to sublicense with prior written approval from Eisai, but subject to a right of first negotiation held by Eisai if we seek to grant sublicenses limited to particular Asian countries. If we sublicense RAD1901 to a third party, we will be obligated to pay Eisai, in addition to the milestones referenced above, a fixed low double digit percentage of certain fees we receive from such sublicensee and royalties in a variable mid-single digit range based on net sales of the sublicensee. The license agreement contains other customary clauses and terms as are common in similar agreements in the industry.

**NET OPERATING LOSS CARRYFORWARDS**

As of December 31, 2011, we had federal and state net operating loss carryforwards of approximately \$128.3 million and \$109.7 million, respectively. If not utilized, the net operating loss carryforwards will begin expiring in 2023 and 2012 for federal and state purposes, respectively.

Under Section 382 of the Code, substantial changes in our ownership may limit the amount of net operating loss carryforwards that could be utilized annually in the future to offset taxable income. Specifically, this limitation may arise in the event of a cumulative change in ownership of our company

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of more than 50% within a three-year period. Any such annual limitation may significantly reduce the utilization of the net operating loss carryforwards before they expire. The closing of this offering together with private placements and other transactions that have occurred since our inception, may have triggered an ownership change pursuant to Section 382, which could limit the amount of net operating loss carryforwards that could be utilized annually in the future to offset taxable income, if any. Any such limitation, whether as the result of this offering, prior private placements, sales of common stock by our existing stockholders or additional sales of common stock by us after this offering, could have a material adverse effect on our results of operations in future years. We have not completed a study to assess whether an ownership change has occurred, or whether there have been multiple ownership changes since our inception, due to the significant costs and complexities associated with such study. In each period since our inception, we have recorded a valuation allowance for the full amount of our deferred tax asset, as the realization of the deferred tax asset is uncertain. As a result, we have not recorded any federal or state income tax benefit in our statement of operations.

**OFF-BALANCE SHEET ARRANGEMENTS**

We do not have any off-balance sheet arrangements or any relationships with unconsolidated entities of financial partnerships, such as entities often referred to as structured finance or special purpose entities.

**NEW ACCOUNTING STANDARDS**

In December 2011, the Financial Accounting Standards Board, or FASB, issued Accounting Standard Update No. 2011-11, *Disclosures about Offsetting Assets and Liabilities*, or ASU No. 2011-11, which will require disclosures for entities with financial instruments and derivatives that are either offset on the balance sheet in accordance with ASC 210-20-45 or ASC 815-10-45, or subject to a master netting arrangement. ASU No. 2011-11 is effective for interim and annual periods beginning on or after January 1, 2013. We have not completed our review of ASU No. 2011-11, but we do not expect its adoption to have a material impact on our results of operations, financial position or cash flows.

In June 2011, FASB issued Accounting Standard Update No. 2011-05, *Presentation of Comprehensive Income*, or ASU No. 2011-05, which will require companies to present the components of net income and other comprehensive income, or OCI, either as one continuous statement or as two consecutive statements. ASU No. 2011-05 eliminates the option to present components of OCI as part of the statement of changes in stockholders' equity. The update does not change the items which must be reported in OCI, how such items are measured or when they must be reclassified to net income. We adopted ASU No. 2011-12 on January 1, 2012. Its adoption did not have a material impact on our financial statements or results of operations.

In May 2011, FASB issued ASU No. 2011-04, *Fair Value Measurement (Topic 82) Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRSs*, or ASU No. 2011-04. The amendments in this update will ensure that fair value has the same meaning in U.S. GAAP and in IFRS and that their respective fair value measurement and disclosure requirements are the same. This update is effective prospectively for interim and annual periods beginning after December 15, 2011. We adopted ASU No. 2011-04 on January 1, 2012. Its adoption did not have a material impact on our results of operations, financial position or cash flows.

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### OVERVIEW

We are a biopharmaceutical company focused on developing new therapeutics for the treatment of osteoporosis and other women's health conditions. Our lead product candidate is BA058, a novel synthetic peptide analog of hPTHrP, a naturally-occurring bone building hormone. We are developing BA058 as a treatment for osteoporosis in both injection and transdermal methods of administration. Osteoporosis is a disease characterized by low bone mass and structural deterioration of bone tissue, which can lead to an increase in fractures. We believe that BA058 stimulates the rapid formation of new, high-quality bone in patients suffering from osteoporosis and may restore BMD in these patients into the normal reference range.

In August 2009, we announced positive Phase 2 data that showed BA058-SC produced faster and greater BMD increases at the spine and the hip with substantially less hypercalcemia than did Forteo, the only approved anabolic agent for the treatment of osteoporosis in the United States. Specifically, our study demonstrated that total analyzable hip BMD showed a more than five-fold benefit of BA058 at a dose of 80µg over Forteo after six months, and BA058 at a dose of 80µg increased mean lumbar spine BMD by 6.7% at six months, compared to 5.5% with Forteo, and by 12.9% at 12 months, compared to 8.6% with Forteo. In April 2011, we began dosing patients in a pivotal, multinational Phase 3 study designed to show that BA058-SC prevents new vertebral fracture compared to placebo. We expect to report top-line 18-month fracture data from this Phase 3 study in the fourth quarter of 2014. We believe that BA058 has the following potential advantages:

- > greater efficacy;
- > faster benefit for building bone;
- > shorter treatment duration;
- > less hypercalcemia;
- > no additional safety risks; and
- > no refrigeration required in use.

We are also developing BA058-TD, a short wear time, transdermal form of BA058 that is delivered using a microneedle patch technology from 3M. We believe BA058-TD may eliminate the need for daily injections, lead to better treatment compliance for patients and expand the existing market. We reported the following top-line results from a Phase 1b study in December 2011:

- > rapid release of BA058 from the microneedle patch;
- > peak transdermal drug levels consistent with BA058-SC;
- > faster time to peak concentration, and faster elimination in plasma, compared to BA058-SC;
- > increase in the bone-formation marker procollagen type 1N-terminal propeptide, or PINP, in serum after seven days of exposure, consistent with bone-building activity; and
- > identification of optimal wear time of five minutes or less, and effective sites of application.

## Edgar Filing: Radius Health, Inc. - Form S-1/A

We commenced a Phase 2 clinical study of BA058-TD during the third quarter of 2012, and expect top-line data from this study to be available in the third quarter of 2013.

The NOF has estimated that 10 million people in the United States, comprising eight million women and two million men, are already diagnosed with osteoporosis, and another 34 million have low bone mass placing them at increased risk for osteoporosis. In addition, the NOF has estimated that

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osteoporosis was responsible for more than two million fractures in the United States in 2005 resulting in an estimated \$19 billion in costs. The NOF expects that the number of fractures due to osteoporosis will rise to three million by 2025.

There are two main types of osteoporosis drugs currently available in the United States, anti-resorptive agents and anabolic agents. Anti-resorptive agents act to prevent further bone loss by inhibiting the breakdown of bone, whereas anabolic agents stimulate bone formation to build new, high-quality bone. We believe there is a large unmet need in the market for osteoporosis treatment because existing therapies have shortcomings in efficacy, tolerability and convenience. For example, the current standard of care, bisphosphonates, an anti-resorptive agent, has been associated with infrequent but serious adverse events such as osteonecrosis of the jaw, atrial fibrillation and anomalous fractures, especially of long bones, resulting from "frozen bone." These atypical fractures have created increasing concern with physicians and patients. Many physicians are seeking alternatives to current anti-resorptive therapies, which we believe will drive greater demand for bone anabolic agents in the future. We believe there is a significant opportunity for a new anabolic agent, such as BA058, that will increase BMD to a greater degree and at a faster rate than other approved drugs for the treatment of osteoporosis with added advantages in convenience and safety.

We are also developing RAD1901, a SERM, which we license from Eisai in 2006. We previously completed an initial one month Phase 2a clinical study for the treatment of vasomotor symptoms, commonly known as hot flashes, in women entering menopause. Our third product candidate, RAD140, is in preclinical development. RAD140, a SARM, is an orally-active androgen agonist on muscle and bone and is a potential treatment for age-related muscle loss, frailty, weight loss associated with cancer cachexia and osteoporosis.

**OUR PRODUCT CANDIDATES**

**OUR STRATEGY**

We plan to build a biopharmaceutical company focused on developing new therapeutics for osteoporosis and other women's health conditions by:

- > completing the pivotal Phase 3 study of BA058-SC for the treatment of osteoporosis and reporting top-line 18-month fracture data in the fourth quarter of 2014;
- > pursuing the clinical development of BA058-TD as a follow-on product for the treatment of osteoporosis;

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- > seeking regulatory approval of BA058-SC and BA058-TD for the treatment of osteoporosis if the clinical trials for these product candidates are successful, initially in the United States and subsequently in Europe;
- > potentially collaborating with third parties for the worldwide commercialization of BA058 (except Japan);
- > pursuing the potential application of BA058 in the moderate osteoporosis market, as well as the fracture healing market;
- > potentially collaborating with third parties for the further development and commercialization of RAD1901 and RAD140 on a worldwide basis; and
- > building a strong management team and board of directors with significant pharmaceutical development, regulatory and commercial experience.

**BACKGROUND ON OSTEOPOROSIS**

Osteoporosis is a disease characterized by low bone mass and structural deterioration of bone tissue, which can lead to an increase in fractures. A bone density test is the only non-invasive test that can diagnose osteoporosis before a broken bone occurs and is reported using t-scores. The test uses a procedure called bone densitometry, or DXA, which is performed in the radiology or nuclear medicine departments of hospitals or clinics. A BMD t-score is the number of standard deviations above or below the mean BMD for a healthy 30 year old adult of the same sex and ethnicity as the patient. A t-score of -1.0 or above implies normal bone density, whereas a t-score of -2.5 or below implies a diagnosis of osteoporosis.

Worldwide, osteoporosis affects an estimated 200 million women according to the IOF. Many individuals may have osteoporosis but do not know it. The Office of the Surgeon General of the United States has said that based on survey results by The National Health and Nutrition Examination Survey, or NHANES, testing at the hip showed that four times as many men (four percent) and 2.5 times as many women (26%) actually had osteoporosis than reported that they had the disease. All bones become more fragile and susceptible to fracture as the disease progresses. People tend to be unaware that their bones are getting weaker, and a person with osteoporosis can fracture a bone from even a minor fall.

Fractures due to osteoporosis are most likely to occur in the hip, spine and wrist. The IOF has estimated that 1.6 million hip fractures occur worldwide each year, and by 2050 this number could reach between 4.5 and 6.3 million. According to the NOF:

- > osteoporosis was responsible for more than two million fractures in the United States in 2005;
- > vertebral (spinal) fractures may result in severe back pain, loss of height or spinal deformities;
- > there were approximately 293,000 Americans age 45 and over admitted to hospitals in 2005 with a fracture of the femoral neck, a common type of hip fracture that is associated with osteoporosis;
- > a women's lifetime risk of a hip fracture is equal to her combined risk of breast, uterine and ovarian cancer;
- > approximately 50% of women and 20% of men will have an osteoporotic fracture after age 50; and
- >

an average of 24% of hip fracture patients aged 50 and over die in the year following their fracture (15-20% excess mortality risk), while an additional 20% of patients who were ambulatory

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before their hip fracture require long-term care (with a 50% chance of added permanent disability).

The debilitating effects of osteoporosis have substantial costs. Loss of mobility, admission to nursing homes and dependence on caregivers are all common consequences of osteoporosis. The risk of subsequent fractures increases by 86% for those with a fracture. The NOF has estimated that osteoporosis-related fractures were responsible for \$19 billion in costs in the United States in 2005.

The prevalence of osteoporosis is growing and, according to the NOF, is significantly under-recognized and under-treated in the population. While the aging of the population is a primary driver of an increase in cases, osteoporosis is also increasing from the use of drugs that induce bone loss, such as chronic use of glucocorticoids, aromatase inhibitors that are increasingly used for breast cancer and the hormone therapies used for prostate cancer.

The range of treatment and prevention options for osteoporosis has expanded in recent years from anti-resorptive drugs that act to prevent bone loss by blocking bone resorption, which is the process by which bone is broken down in the body and the resulting minerals, including calcium, are released into the blood, to include bisphosphonates, SERMs, calcitonins, and most recently in 2010, a genetic-based therapy known as receptor activator of nuclear factor kappa-B ligand, known as a RANKL inhibitor. Bisphosphonates remain the current standard of care, led by Actonel, Boniva, and Fosamax. Generic versions of Fosamax (alendronate) became available in the United States in 2008 and have now gained market share from branded oral bisphosphonates.

The only anabolic drug approved in the United States for osteoporosis is Forteo, which was approved by the FDA in December 2002. In 2011, the medical journal, Osteoporosis International, published results of a study indicating that patients' preferences for osteoporosis medications are strongly influenced by the mode of administration. In particular, when given the choice of subcutaneously injected Forteo versus other therapies, patients preferred the alternative drugs over Forteo, which requires once-daily, self-administered injections and must be refrigerated for storage between uses. We believe that this research suggests that there is a substantial opportunity to optimize patient outcomes and expand the market by improved treatment compliance with a bone anabolic drug that offers an alternative to daily injection, is stable at room temperature and requires a shorter treatment duration, such as BA058-TD. Forteo had worldwide sales of \$594 million in 2006 and \$950 million in 2011.

**BA058**

**Overview**

BA058 is a novel synthetic peptide analog of hPTHrP that we are developing as a bone anabolic treatment for osteoporosis. hPTHrP is critical in the formation of the embryonic skeleton, is involved in the regulation of bone formation and is able to rebuild bone with low associated risk of inducing the presence of too much calcium in the blood, known as hypercalcemia, as a side effect. Human PTHrP is different to hPTH in its structure and role. In 2009, the medical journal, Nature Chemical Biology, published results of a study indicating that PTH and PTHrP activate the same PTHR1 receptor but produce divergent effects in bone due to differences in downstream cell signaling. We believe that BA058 is the most advanced hPTHrP analog in clinical development for the treatment of osteoporosis. We acquired and maintain exclusive worldwide rights, excluding Japan, to certain patents, data and technical information related to BA058 through a license agreement with an affiliate of Ipsen.

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**BA058-SC**

In August 2009, we announced positive Phase 2 data that showed BA058-SC produced faster and greater BMD increases at the spine and the hip after six months and 12 months of treatment than Forteo, which was a comparator in our study. Key findings were that the highest dose of BA058, which was 80 µg, increased mean lumbar spine BMD at six months and 12 months by 6.7% and 12.9% compared to the increases seen with Forteo in the study of 5.5% and 8.6%, respectively. BA058-SC also produced increases in mean femoral neck BMD at the hip at six months and 12 months of 3.1% and 4.1% compared to increases for Forteo of 1.1% and 2.2%, respectively. We believe there to be a strong correlation between an increased level of BMD and a reduction in the risk of fracture for patients with osteoporosis. BA058 was generally safe and well tolerated in this study, with adverse events similar between BA058, placebo and Forteo groups. In addition, the occurrence of hypercalcemia as a side effect was half that seen with Forteo for the 80 µg dose of BA058.

In March 2011, we entered into an agreement with Nordic to manage the Phase 3 study of BA058-SC. The study is being conducted in 10 countries at up to 27 centers operated by CCBR, as well as other medical centers. We expect to report top-line data from the Phase 3 study of BA058-SC in the fourth quarter of 2014. Before we submit an NDA to the FDA for BA058 as a treatment for osteoporosis, we must complete several additional studies, including, but not limited to, our pivotal Phase 3 study based upon 18-month fracture data, a thorough QT Phase 1 study, which is a study designed to assess the potential arrhythmia liability of a drug by measuring the effect on the start to finish time of the ventricular main part of the cardiac contraction, also known as the QT interval, a Phase 1 PK study in renal patients, a Phase 1 PK study in hepatic patients, a carcinogenicity study in rats, and bone quality studies in rats and monkeys.

Our ongoing Phase 3 study, which commenced in April 2011, is targeting enrollment of a total of 2,400 subjects to be randomized equally to receive daily doses of one of the following: 80 µg of BA058, a matching placebo, or the approved dose of 20 µg of Forteo for 18 months. The study is designed to support, or not, our belief that BA058 is superior to placebo for prevention of vertebral fracture and Forteo for greater BMD improvement at major skeletal sites and for a lower occurrence of hypercalcemia. We believe the study will also show that BMD gains for BA058 patients will occur earlier than for Forteo patients. The study will also include a 6-month extension period in order to obtain 24-month fracture data requested by the FDA.

Based upon new guidance we received from the FDA earlier this year, we believe that a successful, single pivotal placebo-controlled, comparative Phase 3 fracture study will be sufficient to support registration of BA058-SC for the treatment of osteoporosis in the United States. Phase 3 studies with similar size, design and endpoints as our Phase 3 fracture study have been sufficient to support registration with the European Medicines Agency, or the EMA, for other bone anabolic drugs used to treat women with osteoporosis in the European Union. We intend to request a meeting with the EMA to confirm that the Phase 3 study, together with the 6-month extension study requested by the FDA, will be acceptable to support registration in the European Union.

Assuming we do not encounter any unforeseen delays during the course of developing BA058-SC, we expect to present the 18-month data in the fourth quarter of 2014. We plan to file the NDA submission for BA058-SC in approximately mid-2015 with the 18-month fracture data and supplementally provide the 24-month fracture data, when available. We expect commercial launch to follow if and when the FDA approves the NDA for BA058-SC. We expect to begin hiring additional personnel in preparation for this commercial launch in the fourth quarter of 2014.

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**BA058-TD**

We successfully completed combined single-day and seven-day repeat-dose Phase 1b clinical studies of BA058-TD in healthy subjects. We commenced the Phase 2 BA058-TD clinical study in the third quarter of 2012 and expect top-line data to be available in the third quarter of 2013. Our Phase 2 clinical study compares multiple daily doses of BA058-TD to placebo and BA058-SC using lumbar spine BMD at six months as the primary endpoint. If BA058-SC is already approved by the FDA, we believe that we will only need to conduct a single non-inferiority Phase 3 clinical study comparing the change in lumbar spine BMD at 12 months for patients dosed with BA058-TD to patients dosed with BA058-SC to show that the effect of BA058-TD treatment is not worse than that of BA058-SC.

We believe that development costs for BA058-TD will be lower than the injectable version as we currently do not intend to conduct an additional pivotal fracture study for this follow-on product. As a result of the compressed pathway, if our clinical trials of BA058-SC and BA058-TD are successful, we expect that marketing approval of BA058-TD can occur soon after BA058-SC. Therefore, the FDA approval, and the timing of any such approval, is dependent upon the approval of BA058-SC. As a result, BA058-TD is not likely to receive FDA approval, if ever, until at least two years following approval of BA058-SC.

**Clinical Development Program**

We are developing BA058 for the prevention of fractures in postmenopausal women at risk of fracture from severe osteoporosis. Recognizing both the therapeutic potential of BA058 in this indication as well as the drawbacks inherent in self-injection therapies in this population, we are also developing BA058-TD for transdermal administration of the product using a microneedle technology from 3M. We plan to develop and register BA058-SC as our lead product, with BA058-TD as a follow-on product that provides greater patient convenience. We believe the ability of BA058-TD to capitalize on the more extensive fracture study data of BA058-SC will allow the patch product to be accelerated through later-phase development without requiring its own fracture study.

**Ongoing BA058-SC Phase 3 Study**

The Phase 3 study for BA058-SC (Study BA058-05-003) was submitted as a draft protocol to investigational new drug, or IND, 73,176 on December 18, 2009, and was the subject of a Type B End of Phase 2 Meeting conducted with the FDA on January 21, 2010. The protocol was subsequently revised and submitted to the FDA on December 17, 2010. In April 2011, we began dosing patients in this study. The study is planned to enroll 2,400 patients at up to 27 medical centers in 10 countries in the United States, Europe, Latin America, India and Asia.

On February 15, 2012, we received a letter from the FDA stating that, after internal consideration, the agency believes that a minimum of 24-month fracture data are necessary for approval of new products for the treatment of postmenopausal osteoporosis. Our ongoing BA058-SC pivotal Phase 3 clinical study is designed to produce fracture data based on an 18-month primary endpoint. The FDA's letter solicited a meeting to review the status of our Phase 3 clinical study and discuss options for fulfilling the FDA's new request for 24-month fracture data in the context of the ongoing Phase 3 study. We subsequently met with the FDA on March 21, 2012 to discuss satisfying the 24-month data request while preserving the current 18-month primary endpoint. Based upon our discussion with the FDA, we believe that continued use of the 18-month primary endpoint will be acceptable, provided that our NDA includes the 24-month fracture data derived from a 6-month extension of the BA058 80 µg and placebo groups in our Phase 3 study that will receive daily oral doses of alendronate (generic Fosamax®) or other standard of care for osteoporosis management. We intend to file the NDA with the 18-month fracture data and supplementally provide the 24-month fracture data, when available.

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*Study objectives.* The primary objective of this study is to determine the safety and efficacy of BA058-SC at a dose of 80 µg when compared to a matching placebo for prevention of vertebral fracture in otherwise healthy ambulatory postmenopausal women at risk of fracture from severe osteoporosis. Patients, investigators and independent assessors will be blinded as to treatment for that outcome. The secondary objectives of this study are to determine the safety and efficacy of BA058 at a dose of 80 µg when compared to placebo for prevention of non-vertebral fractures and for change in vertical height. Additional key secondary efficacy outcomes include BMD of spine, hip and femoral neck and frequency of hypercalcemia when compared to Forteo.

*Study population.* The study will enroll otherwise healthy ambulatory women who have been postmenopausal for at least five years aged 50 to 85 (inclusive), meet the study entry criteria and have provided written informed consent. The women will have a BMD t-score  $\leq -2.5$  and  $> -5.0$  at the lumbar spine or hip (femoral neck) by DXA and radiological evidence of two or more mild or one or more moderate lumbar or thoracic vertebral fractures, or history of low trauma forearm, humerus, sacral, pelvic, hip, femoral or tibial fracture within the past five years. Postmenopausal women older than 65 who meet the above fracture criteria but have a t-score  $\leq -2.0$  and  $> -5.0$  may be enrolled. Women older than 65 who do not meet the fracture criteria may also be enrolled if their t-score  $\leq -3.0$  and  $> -5.0$ . Osteoporosis is defined as when a patient's t-score  $\leq -2.5$ , meaning that the patient has a BMD that is two and a half standard deviations below the mean BMD of an ethnically matched thirty year old man or woman, as applicable. All patients are to be in good general health as determined by medical history, physical examination (including vital signs) and clinical laboratory testing.

*Study design.*

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The planned 2,400 eligible patients will be randomized equally to receive one of the following for 18 months:

- > BA058 at a dose of 80 µg;
- > a matching placebo; or
- > Forteo at a dose of 20 µg.

Study drug will be blinded to patients and medical personnel until the randomization process is completed. Treatment with BA058 at a dose of 80 µg or placebo will remain blinded to all parties throughout the study. Forteo comes as a proprietary prefilled drug and device combination that cannot be repackaged. Therefore, its identity cannot be blinded to treating physicians and patients once use begins. Study medication will be self-administered daily by subcutaneous injection for a maximum of 18 months. All enrolled patients will also receive calcium and vitamin D supplementation from the time of enrollment until the end of the treatment period. It will be recommended to patients that they also continue these supplements through the one month follow-up period.

*Primary efficacy endpoints.* The primary efficacy endpoint will be the number of BA058-treated patients showing new vertebral fractures at end-of-treatment when compared to placebo as evaluated by a blinded assessor according to a standardized graded scale of severity of the vertebral deformity. The sample size per treatment arm provides 90% power at a two-sided alpha to detect a superiority difference between placebo patients and those who receive BA058 at a dose of 80 µg on vertebral fracture incidence.

*Secondary efficacy endpoints.* Secondary efficacy parameters will also include reduction in the incidence of non-vertebral fractures to the wrist, hip and rib, for example, and reduction in moderate and severe vertebral fractures. Other secondary efficacy endpoints will include changes in BMD of the spine, hip, femoral neck and wrist from baseline to end-of-treatment as assessed by DXA.

Additional secondary endpoints will include change in standing height and changes in serum bone formation markers across treatment, such as P1NP, osteocalcin and bone-specific alkaline phosphatase. The frequency of hypercalcemia across treatment groups will also be assessed.

Each of the BA058 80 µg and placebo groups in our Phase 3 study will be eligible to continue in an extension study and will receive daily oral doses of alendronate (generic Fosamax®) or other standard of care for osteoporosis management. A key endpoint of the extension study will be the reduction in new vertebral fractures at 24 months in BA058-treated patients who are treated with alendronate at the end of treatment, versus placebo-treated patients who are treated with alendronate at the end of treatment.

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*Extension study design.*

*Safety outcomes.* Safety evaluations to be performed will include physical examinations, vital signs, 12-lead electrocardiograms, or ECGs, clinical laboratory tests and monitoring and recording of adverse events. Specific safety assessments will include post-dose (four hours) determination of serum calcium, determination of creatinine clearance, post-dose ECG assessments at selected visits and assessments of postural hypotension (60 minutes post-dose) at selected clinic visits.

Bone biopsy of the iliac crest will be performed in a subset of patients receiving BA058 at a dose of 80 µg and placebo (up to 100 patients per group) for assessment of quantitative bone histomorphometry, which is the quantitative study of the microscopic organization and structure of the bone tissue, and will be read blinded to treatment by an independent blinded assessor. Renal safety will be further evaluated in a subset of 100 patients in each treatment group by renal computed tomography, or CT, scan.

Overall study safety will be monitored by an independent data safety monitoring board.

**BA058-TD Phase 2 study**

In the third quarter of 2012, we initiated a Phase 2 randomized, placebo-controlled, parallel group dose-finding clinical study of BA058-TD. The study will evaluate the safety and efficacy of the daily BA058-TD in women with osteoporosis. We intend to enroll about 250 patients and the study will be similar in design to the Phase 2 study for BA058-SC. The study will evaluate the effects of three doses of BA058-TD, compared to placebo and BA058-SC at a dose of 80 µg, on change in BMD and anabolic bone markers over six months of treatment. The study will be powered to detect clinically meaningful changes in BMD and biomarkers as efficacy measures.

Safety will be assessed as changes in incidence of adverse events, changes in laboratory parameters, in particular serum calcium, change from baseline in the patient's vital signs and physical examination.

Study participation will be preceded by four weeks of pretreatment with calcium and vitamin D supplements and treatment conclusion will be followed by a one month period of safety observation.

We expect top-line data from this study to be available in the third quarter of 2013.

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**Completed BA058-SC Phase 2 study**

We conducted a randomized, placebo-controlled, parallel group dose-finding Phase 2 study (Study BA058-05-002) in the United States, Argentina, India and the United Kingdom. The purpose of the study was to evaluate the safety and efficacy of daily injections of BA058-SC in women with osteoporosis. Postmenopausal women between the ages of 55 and 85 (inclusive) who had a BMD t-score  $\leq -2.5$  at the lumbar spine or hip (femoral neck) by DXA or a BMD t-score  $\leq -2$  and a prior low trauma fracture or an additional risk factor were candidates for this study. The study evaluated the effects of BA058-SC at multiple doses (placebo, 20  $\mu\text{g}$ , 40  $\mu\text{g}$  and 80  $\mu\text{g}$ ) on recovery of BMD, a marker of fracture risk, and on biomarkers of anabolic and resorptive activity in bone. The study also included a Forteo treatment arm for reference. These efficacy measures (BMD and bone biomarkers) were designed for statistical significance. After the initial 24 weeks of treatment, eligible patients were offered a second 24 weeks of their assigned treatment. Safety was assessed throughout the study and reported on at both six months and 12 months. BA058-SC and placebo were self-administered using a prefilled cartridge in a pen-injector device. Forteo was self-administered as the marketed product at the approved dose of 20  $\mu\text{g}$  per day by subcutaneous injection. Four weeks prior to start of treatment, patients began taking calcium and vitamin D supplements that continued throughout the study.

A total of 270 patients (mean age: 65 years) entered the pretreatment period, 222 patients were randomized, and 221 patients received study treatment and were analyzed in the intent-to-treat, or ITT, population with 55 continuing into an additional 24 weeks of treatment. A total of 155 patients were included in the efficacy population (per protocol) in the initial 24 weeks of treatment.

*Initial 24 weeks of treatment.* The efficacy results of Study BA058-05-002 confirmed the preclinical and early clinical hypothesis that BA058-SC induces a dose-dependent increase in BMD and in markers of bone remodeling measurable at both the 12-week and 24-week assessments.

In the ITT population, the mean percent change in total analyzable spine BMD at week 12 increased with dose as shown in Figure A below. The mean gains in BMD (active treatment - placebo) for BA058-SC 40  $\mu\text{g}$  and 80  $\mu\text{g}$  groups were statistically significant ( $p = 0.0013$  and  $p < 0.001$ , respectively). The difference was not statistically significant in the BA058 20  $\mu\text{g}$  group and just missed significance in the Forteo group ( $p = 0.055$ ).

At week 24, the mean percent change from baseline continued to increase and was statistically significantly proportional to dose ( $p < 0.001$ ) as shown in Figure A below. Again, the mean gain in total analyzable spine BMD was statistically significant for BA058-SC 40  $\mu\text{g}$  ( $p < 0.001$ ) and 80  $\mu\text{g}$  ( $p < 0.001$ ) groups. The mean BMD gain at week 24 was also statistically significant for the Forteo group ( $p < 0.001$ ). The response of lumbar spine BMD to BA058-SC was dose dependent, and the 80  $\mu\text{g}$  BA058-SC dose produced a larger percentage increase in BMD at the lumbar spine than the approved 20  $\mu\text{g}$  Forteo dose.

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*Figure A Mean Standard Error of the Mean (SEM) Percent Change from Baseline at weeks 12 and 24 in Total Analyzable Spine BMD (ITT Population, N = 221)*

An even greater proportional response in BMD was elicited in the hip region. By week 24, mean percent changes in total analyzable hip BMD were 0.4%, 1.4%, 2.0% and 2.6% for the placebo, BA058 at a dose of 20 µg, BA058 at a dose of 40 µg, and BA058 at a dose of 80 µg groups, respectively. Mean percent change in the Forteo (0.5%) group was similar to placebo, as shown in Figure B below. The change in total analyzable hip BMD showed a dose response to BA058-SC and a more than five-fold benefit of BA058 at a dose of 80 µg over Forteo. A similar relative benefit of BA058 at a dose of 80 µg over Forteo was seen in all regions of the hip.

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*Figure B Mean (SEM) Percent Change from Baseline at weeks 12 and 24 in Total Analyzable Hip BMD (ITT Population, N=221)*

BA058-SC also induced a dose-dependent rise in major markers of bone anabolic activity, including P1NP, bone specific alkaline phosphatase, or BSAP, and osteocalcin. The response to Forteo was generally somewhat greater for all anabolic markers but also bone resorption markers (C-telopeptides of type I collagen crosslinks, or CTX, and N-telopeptides of type I collagen crosslinks, or NTX), consistent with published data on later gradual loss of Forteo BMD benefit.

BA058-SC was well tolerated at all doses and safety events were consistent with usual medical events in a study population of this age and gender. The safety profile was also similar to that of Forteo and there were no treatment-related significant (serious) adverse events, or SAEs. However, adverse events were reported by 74% of patients in the first six months of treatment, with a similar incidence across all treatment groups. The majority of on-treatment events were mild-to-moderate in severity and there were no deaths reported. Seven subjects discontinued due to adverse events: one in the BA058 20 µg group, one in the BA058 40 µg group, three in the BA058 80 µg group and two in the Forteo group. Eight patients (four percent) experienced at least one SAE and the incidence of such events was similar across treatment groups. Five SAEs, unrelated to treatment, were reported in three patients. Local tolerance at the injection site was similar across treatment groups and fewer than 20% of subjects reported any symptoms, such as redness, at the injection site across the many months of injections.

The level of calcium in the blood, known as serum calcium levels, were monitored throughout the study and clinically significant elevated levels (greater than or equal to 10.5 milligrams per deciliter, or mg/dL) were observed in 40% of the Forteo group while also observed in 4%, 12%, 19% and 18% of the placebo, BA058-SC at a dose of 20 µg, 40 µg and 80 µg groups, respectively. Most elevations were noted at the four-hour post-injection time point.

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Blood pressure was assessed throughout the study for postural change. Postural changes in blood pressure (predetermined level of change in systolic or diastolic from lying to standing) were reported in seven patients, including 0%, 5%, 2%, 2% and 7% of patients in the placebo, BA058-SC 20 µg, 40 µg, 80 µg and Forteo groups, respectively. Pre-dose postural changes in blood pressure were similar across treatment groups. There were no clinically meaningful differences in ECG parameters between the placebo and active treatment groups.

Sixteen patients had low titer antibodies against BA058 after six months of treatment. Of these, five were in the BA058 20 µg group, six were in the BA058 40 µg group and five were in the BA058 80 µg group. There were no associated safety events or attenuation of treatment efficacy. One antibody-positive patient in the BA058-SC 40 µg group was found to have evidence of neutralizing activity at 24 weeks without evidence of attenuation of drug efficacy, having a 9.3% gain in total analyzable spine BMD at the week 24 assessment.

*Extended 24 weeks of treatment.* Patients who completed the initial 24 weeks of treatment and continued to meet eligibility criteria were offered participation in the 24-week extension study in which they would continue their assigned treatment. On completion of the regulatory process to approve the study extension, 69 patients remained eligible and 55 participated, including 13, 10, 7, 11 and 14 patients in BA058-SC 20 µg, 40 µg, 80 µg, placebo and Forteo groups, respectively. Forty-eight patients completed the extended treatment period.

BMD continued to increase during the extended 24 weeks of treatment, with the largest percent increases in total analyzable spine BMD, femoral neck BMD and total analyzable hip BMD observed in the BA058-SC 80 µg group, as shown in Figure C below. By week 48, mean percent changes in spine BMD were 0.7%, 5.1%, 9.8% and 12.9% for the placebo, BA058 20 µg, BA058 40 µg and BA058 80 µg, groups, respectively, while mean percent change from baseline in the Forteo group was 8.6%. At week 48, the mean femoral neck BMD in the BA058-SC 80 µg group gained 4.1% compared to the mean of the Forteo group at 2.2%. The gain total analyzable hip BMD was 0.7%, 2.0%, 2.1% and 2.7% for the placebo, BA058 20 µg, BA058 40 µg and BA058 80 µg groups, respectively, compared to 1.3% for the Forteo group.

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*Figure C Mean (SEM) Percent Change from Baseline at weeks 12, 24 and 48 in Total Analyzable Spine BMD (N=55)*

No treatment-related SAEs or deaths were reported during this time period. Two patients discontinued treatment, one for bilateral femoral hernias (BA058-SC 80 µg) and one for moderate syncope (BA058-SC 40 µg). Study-related adverse events occurred in a similar proportion of patients in each treatment group across the 52-week study period and the majority of events were mild or moderate in severity. The profile of events was not different during the second six months of study treatment.

Local tolerance of study drug injections was also similar during the second six months of treatment. There were no safety signals observed in the evaluation of clinical laboratory parameters.

*Conclusions.* This study demonstrated that treatment with BA058-SC induces a substantial positive change in BMD at both spine and hip in women with osteoporosis, with a particular advantage over Forteo at the hip, and achieves this benefit safely and with substantially less hypercalcemia effect than Forteo.

**BA058-SC Phase 1 studies**

*First Phase 1 study.* The first Phase 1 clinical study was a single-dose study conducted as a randomized, double-blind, placebo-controlled, parallel-group dose escalation study of BA058-SC in a vial formulation administered as a single subcutaneous dose to healthy male and female subjects with a mean age of 61 years. The study administered single subcutaneous doses of 2, 5, 7.5, 10, 15, 20, 40, 60, 80 and 100 µg BA058-SC or placebo. Sixteen subjects also received 2.5 µg of BA058-SC by the intravenous, or IV, route and 15 µg subcutaneously in separate study periods. In total, 76 subjects received BA058 while 20 received a placebo. No elevation in serum calcium was observed at doses of 80 µg or lower and no clinically relevant effects of BA058-SC on ECG or continuous monitoring through the use of a Holter monitor readings were observed. In summary, this study demonstrated that BA058-SC is 100% bioavailable, meaning it is absorbed completely, when administered by the

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subcutaneous route. BA058-SC did not induce hypercalcemia and was well tolerated at doses up to 80 µg subcutaneously.

*Second Phase 1 study.* The second Phase 1 clinical study administered BA058-SC once daily for seven days. There were 39 study subjects, all healthy postmenopausal women with an average age of 60. Four doses of BA058-SC (5 µg, 20 µg, 40 µg or 80 µg) and a matching placebo were studied, with seven or eight women receiving each dose for the seven days of the study. BA058-SC was well tolerated at all doses and there were no medically important adverse events. All other adverse events were mild or moderate in intensity and did not appear to be related to the dose of study drug. No subjects dropped out or discontinued the study.

BA058 was rapidly absorbed following injection and reached peak blood levels within one hour. The drug was rapidly cleared from the circulation, resulting in half-life values ranging from 1.05 to 2.59 hours. Following BA058 administration, serum parathyroid hormone decreased, as would be expected, and serum 1,25-dihydroxyvitamin D, an activated form of vitamin D, and serum P1NP rose in a dose-related manner. Both 1,25-dihydroxyvitamin D and P1NP are expected and beneficial effects of the study drug and its class. As expected, serum calcium showed a slight rise following BA058-SC administration, although it remained within the normal range at all times in all patients other than isolated minor and transient elevations in two of seven placebo and three of 32 study subjects.

*Third Phase 1 study.* The third Phase 1 clinical study was a multi-dose study, with the same design as the second Phase 1 study, but using a liquid prefilled multidose cartridge of BA058 and conducted at doses of 80 µg, 100 µg and 120 µg. BA058-SC or placebo was administered daily as a subcutaneous dose for seven days to healthy postmenopausal women. Thirty healthy postmenopausal women with a mean age of 61 years were enrolled and 29 completed treatment.

BA058-SC was well tolerated at doses of up to 100 µg but not at 120 µg which met criteria for termination of dose escalation. One patient in the 120 µg group was intolerant of study drug and was discontinued. All adverse events observed were mild or moderate in intensity. No study subject developed serum antibodies to BA058 following the seven days of exposure. BA058-SC pharmacokinetics were again characterized by rapid absorption, reaching mean peak plasma concentration within approximately 0.5 hours; mean half-life values ranged from 1.13 hours to 1.65 hours. Similar responses in serum PTH, 1,25-dihydroxyvitamin D and serum P1NP were observed. These higher doses of BA058-SC were not associated with occurrence of hypercalcemia. In summary, BA058-SC was well tolerated at up to 100 µg once daily for seven days.

**BA058-TD**

*First Phase 1 study.* The objectives of the BA058-TD Phase 1 study were to determine the safety, PK and time course of delivery of BA058-TD in healthy postmenopausal women and to compare the PK profiles of BA058-TD delivered transdermally to BA058-SC administered subcutaneously.

This study was a randomized, double-blind, placebo-controlled, ascending single-dose study and enrolled 38 healthy postmenopausal women with a mean age of 57.6 years. Subjects underwent up to three single dose exposures to BA058-TD, Placebo Microneedle Patch or BA058-SC 80 µg over the course of three study periods.

BA058-TD was characterized by a rapid absorption and elimination. The  $C_{max}$ , or maximum plasma concentration of the drug, and half-life times were shorter than for BA058-SC administration.

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BA058-TD was well tolerated. Safety events were similar between BA058-TD and BA058-SC, with 99% of adverse events being mild and, of these, most were reactions at the application site. There was no clinically notable difference in laboratory or cardiac safety parameters across doses of BA058 or routes of administration.

In conclusion, the first Phase 1 study of BA058-TD demonstrated that BA058 can safely be delivered by this route of administration.

*Second and third Phase 1 studies.* A second Phase 1 single-day and a third Phase 1 seven-day application study of BA058-TD have been completed in the United States and Canada using an optimized Microneedle Patch system with top-line results announced in December 2011. These studies were designed as safety, dose-ranging and time-course PK and pharmacodynamic studies. The second and third Phase 1 studies also investigated optimal dose, wear time and application site for transdermal delivery of BA058 using an optimized microneedle array. The results obtained using BA058-TD were compared to those of BA058-SC at a dose of 80 µg.

BA058-TD was characterized by a rapid release of BA058 with a faster time to reach peak concentration as well as more rapid elimination in plasma compared to BA058-SC. Peak transdermal drug levels were consistent with BA058-SC. An optimal wear time of five minutes or less was identified as well as effective sites of application.

BA058-TD showed an increase in the bone-formation marker PINP in serum after seven days of exposure, consistent with bone-building activity.

BA058-TD was shown to be safe and well tolerated in all doses studied.

*Preclinical pharmacology of BA058.* In pharmacology studies conducted with BA058, the following has been shown:

- > BA058 is a potent selective agonist of the human PTHR 1 receptor;
- > in models of calcium mobilization, BA058 has significantly less calcium mobilizing activity at higher doses than the native hPTHrP(1-34), and less activity than hPTH(1-34);
- > BA058-SC stimulates the formation of normal, well-organized bone and restores BMD in ovariectomized, or OVX, osteopenic rats and primates. Additionally, mechanical testing of bones from OVX rats after treatment with BA058-SC revealed a significant increase in femur and vertebral bone strength. BA058-SC exhibited the majority of its effects through the growth of trabecular bone without compromising cortical bone. Similar studies in rats with BA058-TD show comparable restoration of bone;
- > BA058-SC was well tolerated over a wide range of doses in two species, rats and primates, for up to six months and nine months, respectively;
- > safety pharmacology studies demonstrated no respiratory, gastroenterologic, hematologic, renal or central nervous system effects (tachycardia and hypotension were observed in dogs following both intravenous and subcutaneous administration, but such effects were not observed in other species);
- > the No Observed Adverse Effect Level was 15, 25 and 25 µg/kg/day in rats in the 4-, 13- and 26-week studies, respectively, and 100, 50 and equal to or less than 10 µg/kg/day in monkeys in the 4-, 13- and 39-week studies; and
- > repeat subcutaneous dose studies in both rats and cynomolgus monkeys at doses up to 300 and 450 µg/kg/day, respectively, revealed a relatively fast absorption ( $T_{max}$  from 0.083 to 1.0 hr); peak serum concentration and Area Under the Curve, a measure of drug exposure, increased as the dose increased.



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These preclinical studies suggest that compared to hPTH(1-34), BA058-SC can potentially be used to restore lost BMD with a reduced risk of hypercalcemia.

**Ongoing preclinical safety studies for BA058**

A two-year subcutaneous injection carcinogenicity study of BA058 in Fischer 344 albino rats is currently ongoing and will assess the carcinogenic potential of BA058. The study is being conducted according to the provisions set forth in Guidance ICH-S1A, ICH-S1B, and ICH-S1C(R2), and the design was accepted by the FDA on July 15, 2009. This study will evaluate three BA058 dose levels. The doses were selected based upon findings and tolerance in completed long-term rat toxicology studies and the anticipated tolerance over a two-year dosing period. Furthermore, the doses represent an exposure multiple over maximum clinical doses. The study includes a cohort of rats being dosed with hPTH(1-34), a daily subcutaneous injection of human parathyroid hormone as a positive control, as it is anticipated that osteosarcomas would be observed with this treatment, as previously published for both rhPTH(1-34) and rhPTH(1-84) in similar 2-year rat carcinogenicity studies. The positive control will also allow confirmation of the sensitivity of the model. At an interim, preliminary analysis of histopathology on pre-terminal rats only, we have observed osteosarcomas in our carcinogenicity study in both the BA058 and hPTH(1-34) treated groups, which has been reported to regulatory agencies. Our carcinogenicity study is continuing as originally planned. The final results from the rat carcinogenicity study may show that BA058 dosing results in more osteosarcomas than PTH, at similar exposure multiples to the human therapeutic dose, which may have a material adverse bearing on approval of BA058. This study is being conducted in parallel with the Phase 3 clinical study.

We also expect to conduct one preclinical bone quality study in OVX rats for 12 months of daily BA058 subcutaneous injection and a second preclinical bone quality study in adult OVX monkeys for 16 months. The primary objective of these studies is to demonstrate that long-term treatment with BA058-SC will not lead to deleterious effects on bone quality by determining BA058's effect on the mass, architecture and strength of bones. These studies will be conducted in parallel with the Phase 3 clinical study and, in both studies, BA058 will be compared to placebo. The 12-month rat study is being performed in OVX skeletally mature Sprague-Dawley rats, an appropriate species for osteoporosis studies as a result of the cancellous bone changes and bone strength changes similarly noted in humans. In this study, a 13-week bone depletion period will occur after ovariectomy/sham surgery and prior to initiation of daily subcutaneous injection dosing with vehicle or three different dose levels of BA058.

The 16-month nonhuman primate study is being performed in OVX monkeys, a larger remodeling species whose bone depletion can be induced by estrogen deficiency, as in human menopause. In this study, an approximate nine-month bone depletion period will occur after OVX/sham surgery and prior to initiation of daily subcutaneous injection dosing with vehicle or three dose levels of BA058. The specific objectives and measured outcomes of both studies are to investigate the potential safety and restoring efficacy of BA058 on bone. Effects on bone mass, both cortical bone and cancellous bone, will be assessed by BMD and peripheral quantitative computed tomography. Effects on cortical and cancellous bone strength will be determined by biomechanical testing. The mechanisms by which BA058 affects bone will be assessed by evaluation of biomarkers of bone turnover and histomorphometric indices of bone turnover. PK of BA058 and development of antidrug antibodies will also be evaluated.

**Manufacturing of BA058**

The active pharmaceutical ingredient, or API, of BA058 is manufactured on a contract basis by Lonza under GMP conditions using a solid phase peptide synthesis assembly process, and purification by high

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pressure liquid chromatography. BA058-SC is supplied as a liquid in a multi-dose cartridge for use in a pen delivery device. The multi-dose cartridges are manufactured by Vetter. BA058-TD is manufactured by 3M based on their patented microneedle technology to administer drugs through the skin, as an alternative to subcutaneous injection.

**Patents relating to BA058**

Composition of matter of BA058 is claimed in the United States (U.S. Patent No. 5,969,095), Europe, Australia, Canada, China, Hong Kong, South Korea, New Zealand, Poland, Russia, Singapore, Mexico, Hungary, and Taiwan. These cases have a normal patent expiration date of 2016 absent the possibility of patent term extension. The Phase 3 clinical dosage of BA058 by the subcutaneous route for use in treating osteoporosis is covered by Patent No. 7,803,770 until 2028 (statutory term extended with 175 days of patent term adjustment due to delays in patent prosecution by the USPTO) in the United States (absent any patent term extension under the Hatch-Waxman Act). The intended therapeutic formulation for BA058-SC is covered by Patent No. 8,148,333 until 2027 (statutory term extended with 36 days of patent term adjustment due to delays in patent prosecution by the USPTO) in the United States (absent any patent term extension under the Hatch-Waxman Act). Related cases granted in China, Australia, Singapore, and Ukraine, and currently pending in Europe, China, Australia, Canada, Japan, Brazil, Mexico, Singapore, South Korea, India, Israel, New Zealand, Norway, Russia, and Hong Kong will have a normal un-extended patent expiration date of 2027. An international patent application and a corresponding U.S. patent application were filed in 2012 (claiming priority to 2011) which cover various aspects of BA058 for microneedle application. Any claims that might issue from these applications will have a normal expiration date no earlier than 2032.

**Competition for BA058**

The development and commercialization of new products to treat osteoporosis and women's health is highly competitive, and there will be considerable competition from major pharmaceutical, biotechnology and specialty pharmaceutical companies. Many of our competitors have substantially more resources than we do, including both financial and technical. In addition, many of these companies have longer operating histories and more experience than us in preclinical and clinical development, manufacturing, regulatory and global commercialization. See "Risk Factors If we cannot compete successfully for market share against other drug companies, we may not achieve sufficient product revenues and our business will suffer."

Potential competitors with BA058 include, but are not limited to, Amgen, UCB, Merck & Co., Novartis, Lilly, Asahi Kasei and Zosano. Lilly launched Forteo in December 2002 as the first-to-market anabolic or bone-building agent for the treatment of osteoporosis. In April 2012, UCB and Amgen started a Phase 3 clinical trial program for their sclerostin antibody for the treatment of osteoporosis. Zosano and Asahi Kasei are also developing a transdermal form of rhPTH(1-34) that would compete with BA058-TD. We have no products approved for sale and therefore have no share of any therapeutic markets in which we hope to introduce BA058.

**RAD1901**

**Clinical development program**

In June 2006, we exclusively licensed the worldwide rights (except Japan) to RAD1901 from Eisai. In particular, we have licensed US Patent No. 7,612,114 (effective filing date December 25, 2003, statutory term extended to August 18, 2026 with 967 days of patent term adjustment due to delays by

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the USPTO). We are developing RAD1901, a SERM, in an oral formulation as a treatment for vasomotor symptoms, commonly known as hot flashes.

**Background on vasomotor symptoms**

Hot flashes and night sweats are common symptoms during menopause, with up to 85% of women experiencing them during the menopause transition, for a median duration of four years. In 2008, more than 11.5 million women in the United States were in the 45- to 49-year age range to enter menopause. In addition, most women receiving systemic therapy for breast cancer suffer hot flashes, often with more severe or prolonged symptoms than women experiencing menopause. These symptoms can disrupt sleep and interfere with quality of life. An estimated two million women undergo menopause every year in the United States, with a total population of 50 million postmenopausal women.

Historically, hormone replacement therapy, or HRT, with estrogen and/or progesterone was considered the most efficacious approach to relieving menopausal symptoms such as hot flashes. However, data from the Women's Health Initiative, or WHI, identified increased risks for malignancy and cardiovascular disease associated with estrogen therapy. Sales of HRT declined substantially after the release of the initial WHI data, but HRT remains the current standard of care for many women suffering from hot flashes. However, due to concerns about the potential long-term risks and contraindications associated with HRT, we believe that there is a significant need for new therapeutic options to treat vasomotor symptoms. Pfizer's Premarin product line remains the market leader for drugs to manage menopausal symptoms with 2010 worldwide sales of \$1 billion.

**Pharmacologic characteristics**

RAD1901 has been shown to bind to the estrogen receptor alpha, or ER $\alpha$ , and to have both estrogen-like and estrogen antagonist effects in different tissues. RAD1901 has also been shown to have both estrogen-like behavioral effects in animals and to reduce vasomotor signs in an animal model of menopausal hot flashes. In bone, RAD1901 protects against castration-induced bone loss while showing no unwanted stimulation of the endometrium. In cell culture, RAD1901 does not stimulate replication of breast cancer cells and antagonizes the stimulating effects of estrogen. Overall, therefore, RAD1901 exhibits a number of properties that would make it a suitable drug candidate for the management of menopausal symptoms, particularly the treatment of vasomotor symptoms.

**Phase 1 study**

A Phase 1 safety, PK and bioavailability study was conducted in 80 healthy postmenopausal women over a range of doses of RAD1901, including placebo. After single dosing with RAD1901 by mouth, the mean half-life ranged between 27.4 and 32.5 hours. Bioavailability was determined to be approximately 10%. Food effect was also investigated and the presence of food was determined to increase absorption and delay clearance of RAD1901.

RAD1901 was generally well tolerated. All study-related adverse events were of mild intensity, with some increase in frequency at the higher doses in the multiple dose group, most commonly gastrointestinal symptoms and headaches. There were no SAEs observed.

**Phase 2 study**

A Phase 2 proof of concept study was conducted in 100 healthy postmenopausal women using four doses of RAD1901 (10 mg, 25 mg, 50 mg and 100 mg) and placebo. The primary study outcome was reduction in the frequency and severity of moderate and severe hot flashes. While a classic

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dose-response effect was not demonstrated, efficacy was determined to occur at the 10 mg dose level which achieved a statistically significant reduction in the frequency of moderate and severe hot flashes both by linear trend test and by comparison to placebo and in overall (mild-moderate-severe) hot flashes at either the two-, three- or four-week time-points. A similar reduction in composite score (frequency × severity of hot flashes) was identified at all time-points, with a statistically significant difference from placebo achieved at the two-, three- or four-week time-points. Numerical reductions in mean severity and mean daily severity were observed, but did not reach statistical significance.

No SAEs were reported during the course of the study. Overall, 69% of patients had an adverse event, generally mild or moderate in severity, with some evidence of dose dependency, and events were most commonly gastrointestinal symptoms and headaches. Three severe adverse events occurred, one in a placebo patient, and were not considered treatment related. Two patients discontinued treatment due to an adverse event, neither in relation to the 10 mg dose.

Our current strategy is to collaborate with third parties for the further development and commercialization of RAD1901. Therefore, the date of any FDA approval of RAD1901, if ever, cannot be predicted at this time. As a result of the uncertainties around the completion of a collaboration arrangement for RAD1901 with third parties, we are unable to determine the duration and costs to complete current or future clinical stages of our RAD1901 product candidate or when, or to what extent, we will generate revenues from the commercialization and sale of RAD 1901. From January 1, 2009 through December 31, 2011, we incurred \$3.9 million in research and development costs related to RAD1901. Any failure by us to obtain, or any delay in obtaining, regulatory approvals for RAD1901 could significantly increase our need to raise additional working capital funds and materially adversely affect our product development efforts and our business overall. We can give no assurances that any additional capital that we are able to obtain will be sufficient to meet our cash flow needs. If we do not succeed in the timely raising of additional funds on acceptable terms, we may be unable to complete planned preclinical and clinical studies or obtain approval of any product candidates, including RAD1901 from the FDA and other regulatory authorities. In addition, we could be forced to discontinue product development, reduce or forego sales and marketing efforts and forego attractive business opportunities. Any additional sources of financing will likely involve the issuance of additional equity securities, which will have a dilutive effect on stockholders.

**Manufacturing of RAD1901**

The API of RAD1901 is manufactured for us on a contract basis by Irix Pharmaceuticals, Inc. The present GMP of RAD1901 comprises nine synthetic steps from a non-GMP starting material. The current manufacturing process requires no chromatographic separations. RAD1901 is a chiral material present as essentially one enantiomer.

**Patents relating to RAD1901**

RAD1901 as a composition of matter is covered by US Patent No. 7,612,114 (statutory term extended to 2026 with 967 days of patent term adjustment absent any Hatch-Waxman extension). Corresponding cases issued in Australia and Canada and pending in India and Europe will have a normal expiration in 2023. A patent application covering methods of using RAD1901 for the treatment of vasomotor symptoms has been filed in the United States (published as US 2010/0105733A1), Europe and Canada and any claims issuing will have a normal expiration in 2027. A patent application covering combination therapy using RAD1901 has been filed in the United States (published as US 2011/0124617) and any claims issuing will have a normal expiration in 2029. In addition, a Patent Cooperation Treaty, or PCT, application covering a dosage form has been

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filed, and any claims that might issue from applications claiming priority to the PCT or the underlying US Provisional Application No. 61/334,095 will have a normal expiration date no earlier than 2031.

**Competition for RAD1901**

The development and commercialization of new products to treat women's health is highly competitive, and there will be considerable competition from major pharmaceutical, biotechnology and specialty pharmaceutical companies. Many of our competitors have substantially more resources than we do, including both financial and technical. In addition, many of these companies have longer operating histories and more experience than us in preclinical and clinical development, manufacturing, regulatory and global commercialization. See "Risk factors If we cannot compete successfully for market share against other drug companies, we may not achieve sufficient product revenues and our business will suffer" above.

Our potential competitors in relation to RAD1901 include, but are not limited to, Pfizer (NDA under review) and Depomed (Phase 3) who both have agents in more advanced stages of development than RAD1901. We believe that RAD1901 will be able to compete with other agents for the treatment of hot flashes because we expect it to have a similar efficacy and better safety profile than estrogen products, as well as a better efficacy and safety profile than non-estrogen products. We have no products approved for sale and therefore have no share of any therapeutic markets in which we hope to introduce RAD1901.

**RAD140**

**Pharmacologic characteristics**

RAD140 is a nonsteroidal SARM that resulted from an internal drug discovery program that began in 2005. RAD140 has demonstrated potent anabolic activity on muscle and bone in preclinical studies and has completed 28-day preclinical toxicology studies in both rats and monkeys. Because of its high anabolic efficacy, receptor selectivity, potent oral activity and long duration half life, we believe that RAD140 has clinical potential in a number of indications where the increase in lean muscle mass and/or bone density is beneficial; such as treating the weight loss due to cancer cachexia, muscle frailty and osteoporosis.

Our current strategy is to collaborate with third parties for the further development and commercialization of RAD140 so the date of any FDA approval of RAD140, if ever, cannot be predicted at this time. As a result of the uncertainties around the completion of a collaboration arrangement for RAD140 with third parties, we are unable to determine the duration and costs to complete current or future clinical stages of our RAD140 product candidate or when, or to what extent, we will generate revenues from the commercialization and sale of RAD140. From January 1, 2009 through December 31, 2011, we incurred \$2.4 million in research and development costs related to RAD140. Any failure by us to obtain, or any delay in obtaining, regulatory approvals for RAD140 could significantly increase our need to raise additional working capital funds and materially adversely affect our product development efforts and our business overall. We can give no assurances that any additional capital that we are able to obtain will be sufficient to meet our cash flow needs. If we do not succeed in the timely raising of additional funds on acceptable terms, we may be unable to complete planned preclinical and clinical studies or obtain approval of any product candidates, including RAD140 from the FDA and other regulatory authorities. In addition, we could be forced to discontinue product development, reduce or forego sales and marketing efforts and forego attractive business opportunities. Any additional sources of financing will likely involve the issuance of additional equity securities, which will have a dilutive effect on stockholders.

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**Patents relating to RAD140**

RAD140 as a composition of matter and methods of using RAD140 is covered by US Patent No. 8,067,448 (effective filing date February 19, 2009, and a statutory term extended to September 25, 2029 with 281 days of patent term adjustment due to delays by the USPTO) and U.S. Patent No. 8,268,872 (effective filing date February 19, 2009 with term understood to be extended with 232 days of Patent Term Adjustment). Related patents have been granted in Australia and Mexico and additional patent applications are pending in the United States and numerous additional countries worldwide. Any patents issued from these filings will have a normal expiration in 2029 absent any extensions.

**Competition for RAD140**

The development and commercialization of new products to treat women's health is highly competitive, and there will be considerable competition from major pharmaceutical, biotechnology and specialty pharmaceutical companies. Many of our competitors have substantially more resources than we do, including both financial and technical. In addition, many of these companies have longer operating histories and more experience than us in preclinical and clinical development, manufacturing, regulatory and global commercialization. See, "Risk factors If we cannot compete successfully for market share against other drug companies, we may not achieve sufficient product revenues and our business will suffer" above.

Potential competitors to Radius in relation to RAD140 include, but are not limited to, GTx (Phase 3) and Ligand (Phase 1/2) who both have agents in more advanced stages of development than RAD140. We believe that RAD140 will be able to compete with other SARM agents because we expect it to have high potency to increase muscle and bone with a strong safety profile. We have no products approved for sale and therefore have no share of any therapeutic markets in which we hope to introduce RAD140.

**COLLABORATIONS AND LICENSE AGREEMENTS**

**Nordic Bioscience**

We entered into a letter of intent with Nordic on September 3, 2010, pursuant to which we funded preparatory work by Nordic in respect of a Phase 3 clinical study of BA058-SC. The letter of intent was extended on December 15, 2010 and on January 31, 2011. Pursuant to the letter of intent and the two extensions, we funded an aggregate \$1.5 million of preparatory work by Nordic during 2010 and funded an additional \$750,000 of preparatory work by Nordic during 2011. On March 29, 2011, we entered into a Clinical Trial Services Agreement (which superseded and subsumed the letter of intent and its two extensions), a Work Statement NB-1 under such Clinical Trial Services Agreement and a related Stock Issuance Agreement with Nordic. Pursuant to Work Statement NB-1, as amended on December 9, 2011 and June 18, 2012, Nordic is managing the Phase 3 clinical study of BA058-SC and we are required to make various payments denominated in both euros and U.S. dollars over the course of the Phase 3 study of a total of both €41.2 million (\$52.1 million) and \$3.2 million.

Pursuant to the Stock Issuance Agreement, Nordic agreed to purchase the equivalent of €371,864 of the Former Operating Company's series A-5 convertible preferred stock at a price per share equal to \$8.142. Nordic purchased 64,430 shares of the Former Operating Company's series A-5 convertible preferred stock on May 17, 2011 for proceeds of \$525,154 to the Former Operating Company. These shares were exchanged in the Merger for 6,443 shares of our series A-5 preferred stock, which will convert automatically into 64,430 shares of common stock upon the listing of the common stock on the NASDAQ Global Market. The Stock Issuance Agreement provides that Nordic will receive

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additional shares of capital stock, having an aggregate value of up to €36.8 million (\$46.6 million), which, following the automatic conversion of all of our preferred stock as a result of the listing of our common stock on the NASDAQ Global Market, will be in the form of shares of common stock, at certain times during the performance of the Phase 3 clinical study that is the subject of Work Statement NB-1.

The Clinical Trial Services Agreement has a five-year term unless it is sooner terminated. The Clinical Trial Services Agreement or any Work Statement may be terminated by mutual agreement of the parties at any time. Either party may also terminate any Work Statement upon a material breach by the other party with respect to such Work Statement unless such other party cures the alleged breach within the notice period specified in the Clinical Trial Services Agreement or if not capable of being cured within such period the party alleged to be in breach commences efforts to cure and diligently proceeds to cure. Termination of any Work Statement does not result in termination of the Clinical Services Agreement or any other Work Statements, which remain in force until terminated. Either party may also terminate a Work Statement if force majeure conditions have prevented performance by the other party for more than a specified period of time. We may also terminate a Work Statement with notice to Nordic if authorization and approval to perform any clinical study that is the subject of such Work Statement is withdrawn by the FDA or other relevant health authorities or human or toxicological test results support termination of the clinical study relating to such Work Statement for reasons of safety or if the emergence of any adverse event or side effect in the clinical study relating to such Work Statement is of such magnitude or incidence in our opinion as to support termination.

The Clinical Trial Services Agreement contains customary risk allocation clauses with each party indemnifying the other in respect of third-party claims arising out of or resulting from: (i) the negligence or intentional misconduct of such party, its employees, agents or representatives in performing its obligations under the Clinical Services Agreement or any Work Statement; and (ii) any breach by such party of its representations and warranties under the Clinical Trial Services Agreement. We have agreed to indemnify Nordic in respect of third-party claims for product liability or personal injury arising from or relating to our products or our use of any deliverables. In addition, we separately provide indemnification to the investigative sites performing services pursuant to Work Statement NB-1 in respect of third-party claims of injury, illness or adverse side effects to a patient in the study that is the subject of Work Statement NB-1 that are attributable to the Radius study drug under indemnification letters with such investigative sites. The Clinical Services Agreement contains other customary clauses and terms as are common in similar agreements in the industry.

In December 2011, we entered into an amendment to the Work Statement, or the First Amendment. Pursuant to the original terms of the Work Statement, the study was to be conducted in 10 countries at a specified number of sites within each country. The terms of the First Amendment provide for two additional countries (the United States and India) in which the study will be conducted, specify a certain number of sites within each such additional country for the conduct of the study, and amend various terms and provisions of the Work Statement to reflect the addition of such countries and sites within the study's parameters. Payments to be made by us to Nordic under the First Amendment in connection with the conduct of the study in such additional countries are denominated in both euros and U.S. dollars and total up to both €717,700 (\$909,182) and \$289,663 for the 15 additional study sites in India contemplated by the First Amendment and up to both €1.2 million (\$1.5 million) and \$143,369 for the five additional study sites in the United States contemplated by the First Amendment.

In June 2012, we entered into a second amendment to the Work Statement, or the Second Amendment. Pursuant to the original terms of the Work Statement, as amended by the First Amendment, the study was to be conducted in 12 countries at a specified number of sites within each country. The terms of the Second Amendment (i) increase the overall number of sites by adding sites in

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Europe, Brazil and Argentina and removing other sites, (ii) specify a certain number of sites within each country for the conduct of the study, and (iii) amend various terms and provisions of the Work Statement to reflect additional services provided at existing sites and the addition of the new study sites within the study's parameters. The Second Amendment also provided that cash payments to Nordic under the Clinical Trial Services Agreement as well as the payment of shares of series A-6 preferred stock under the related Stock Issuance Agreement shall each be reduced by an amount of €11,941 (\$15,127) per subject for any subjects enrolled in India or the United States. Such reductions shall be applied in pro rata monthly installments. Payments to be made by us to Nordic under the Second Amendment in connection with the extra services provided at existing sites and the conduct of the study at the new study sites are denominated in both euros and U.S. dollars and total €3.7 million (\$4.7 million) and \$205,540, respectively.

On July 26, 2012, we entered into a Letter of Intent, or the Letter of Intent, with Nordic, which provides that we and Nordic will, subject to our compliance with certain requirements of our certificate of incorporation and applicable securities laws, negotiate in good faith to enter into (1) a Work Statement NB-2, or the Work Statement NB-2, and (2) an amendment to the Stock Issuance Agreement. The Work Statement NB-2 is contemplated by the terms of the Work Statement under the Clinical Trial Services Agreement.

The Letter of Intent further provides that Nordic will begin providing clinical trial services relating to the Phase 2 clinical study of our BA058 Transdermal product, as contemplated by the Work Statement and the draft Work Statement NB-2. Payments in cash to be made by us to Nordic under the Letter of Intent in connection with the services to be provided are denominated in both euros and U.S. dollars and total up to €3.5 million (\$4.4 million) and \$257,856, respectively. In addition, we will issue to Nordic, subject to the execution of the Work Statement NB-2 and the Stock Issuance Agreement Amendment, shares of our series A-6 preferred stock having a value of at least \$2.9 million, as additional payment for services to be provided under the Work Statement NB-2 and the Work Statement.

The Letter of Intent will terminate on the earlier of (1) the date on which we and Nordic enter into the Work Statement NB-2 and the Stock Issuance Agreement Amendment and (2) October 15, 2012 (pursuant to an extension mutually agreed to by us and Nordic).

**3M**

In December 2008, we entered into a Feasibility Agreement with 3M whereby 3M assessed the feasibility of developing a BA058-TD patch product and supplying the product for preclinical studies in an animal model. Upon successful completion of the feasibility study, during June 2009, we entered into a Development and Clinical Supplies Agreement with 3M under which 3M is responsible to develop a BA058-TD patch product and manufacture clinical and toxicology supplies of such patch product for preclinical, Phase 1 and Phase 2 studies on an exclusive basis. In addition, 3M has agreed to work exclusively with us for the transdermal delivery of all PTHrP analogues and derivatives.

We pay 3M for services delivered pursuant to the Development and Clinical Supplies Agreement on a fee for service or a fee for deliverable basis as specified in the Development and Clinical Supplies Agreement. The Feasibility Agreement expired on or around September 2009. We have paid 3M approximately \$10.1 million, in the aggregate, through June 30, 2012 in respect to services and deliverables delivered pursuant to the Feasibility Agreement and the Development and Clinical Supplies Agreement.

The Development and Clinical Supplies Agreement remains in effect until the completion of the workplan that the parties are performing thereunder, unless it is sooner terminated. Either party may

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terminate the Development and Clinical Supplies Agreement upon a material breach by the other party unless such other party cures the alleged breach within the notice period specified in the Development and Clinical Supplies Agreement. The Development and Clinical Supplies Agreement contains customary risk allocation clauses with 3M indemnifying us in respect of third-party claims arising from any personal injury to the extent that such claim results from 3M's breach of warranty with respect to BA058-TD meeting applicable specifications; and us indemnifying 3M in respect of third-party claims arising with from our or our agent's use, testing or clinical studies of BA058-TD. The Development and Clinical Supplies Agreement contains other customary clauses and terms as are common in similar agreements in the industry.

**Ipsen Pharma**

In September 2005, we entered into a License Agreement with Ipsen, as amended in September 2007 and May 2011, under which we exclusively licensed certain Ipsen compound technology and related patents covering BA058 to research, develop, manufacture and commercialize certain compounds and related products in all countries, except Japan (where we do not hold commercialization rights) and France (where our commercialization rights are subject to certain co-marketing and co-promotion rights retained by Ipsen). Ipsen also granted us an exclusive right and license under the Ipsen compound technology and related patents to make and have made compounds or product in Japan. Ipsen also granted us an exclusive right and license under certain Ipsen formulation technology and related patents solely for purposes of enabling us to develop, manufacture and commercialize compounds and products covered by the compound technology license in all countries, except Japan (where we do not hold commercialization rights) and France (where our commercialization rights are subject to certain co-marketing and co-promotion rights retained by Ipsen). With respect to France, if Ipsen exercises its co-marketing and co-promotion rights then Ipsen may elect to receive a percentage of the aggregate revenue from the sale of products by both parties in France (subject to a mid-double digit percentage cap) and Ipsen shall bear a corresponding percentage of the costs and expenses incurred by both parties with respect to such marketing and promotion efforts in France; Ipsen shall also pay us a mid-single digit royalty on Ipsen's allocable portion of aggregate revenue from the sale of products by both parties in France. Specifically, we licensed US Patent No. 5,969,095 (effective filing date March 29, 1996, statutory term expires March 29, 2016) entitled "Analogues of Parathyroid Hormone," US Patent No. 6,544,949, (effective filing date March 29, 1996, statutory term ends March 29, 2016) entitled "Analogues of Parathyroid Hormone" and the corresponding foreign patents and continuing patent applications.

In addition, we have rights to joint intellectual property including rights to US Patent No. 7,803,770 (effective filing date October 3, 2007, statutory term extended to March 26, 2028 with 175 days of patent term adjustment due to delays in patent prosecution by USPTO), US Patent No. 8,148,333 (effective filing date October 3, 2007, statutory term extended to November 8, 2027 with 36 days of patent term adjustment due to delays in patent prosecution by the USPTO) and related patents and patent applications both in the United States and worldwide that cover the method of treating osteoporosis using the Phase 3 clinical dosage strength and form.

As consideration for the rights to BA058 licensed to us by Ipsen, we paid Ipsen a non-refundable, non-creditable initial license fee of \$250,000. The License Agreement requires us to make payments to Ipsen upon the achievement of certain development milestones in the range of \$750,000 and upon the achievement of certain development, regulatory and commercial milestones in the range of €10.0 million to €36.0 million (\$12.7 million to \$45.6 million), and we have, as of June 30, 2012, paid \$750,000 in milestone payments and issued 17,326 shares of series A-1 convertible preferred stock to Ipsen on May 17, 2011 in lieu of a €1.0 million cash payment due to Ipsen upon initiation of

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the first BA058 Phase 3 clinical study. If we or our sublicensees commercialize a product that includes the compound licensed from Ipsen or any analog thereof, we will be obligated to pay to Ipsen a fixed five percent royalty based on net sales of the product on a country-by-country basis until the later of the last to expire of the licensed patents or for a period of 10 years after the first commercial sale in such country.

The date of the last to expire of the BA058 patents, barring any extension thereof, is expected to be March 26, 2028. In the event that we sublicense the rights licensed from Ipsen to a third party, we are obligated to pay Ipsen a percentage of certain payments received from such sublicensee (in lieu of milestone payments not achieved at the time of such sublicense). The applicable percentage is in the low double digit range. In addition, if we or our sublicensees commercialize a product that includes a compound discovered by us based on or derived from confidential Ipsen know-how, we will be obligated to pay to Ipsen a fixed low single digit royalty on net sales of such product on a country-by-country basis until the later of the last to expire of our patents that cover such product or for a period of 10 years after the first commercial sale of such product in such country. The License Agreement expires on a country by country basis on the later of (i) the date the last remaining valid claim in the licensed patents expires, in that country; or (ii) a period of 10 years after the first commercial sale of the licensed products in such country, unless it is sooner terminated.

The License Agreement may be terminated by us with prior notice to Ipsen. The License Agreement may be terminated by Ipsen upon notice to us with immediate effect, if we, in any country of the world, bring an action or proceeding seeking to have any Ipsen patent right declared invalid or unenforceable. The License Agreement can also be terminated by Ipsen if we fail to use reasonable commercial efforts to develop the licensed product for sale and commercialization in those countries within the territory where it is commercially reasonable to do so as contemplated by the License Agreement, or fail to use reasonable commercial efforts to perform our obligations under the latest revised version of the development plan approved by the joint steering committee, or fail to use reasonable commercial efforts to launch and sell one licensed product in those countries within the territory where it is commercially reasonable to do so. Either party may also terminate the License Agreement upon a material breach by the other party unless such other party cures the alleged breach within the notice period specified in the License Agreement. Ipsen may terminate the License Agreement in the event that the License Agreement is assigned or sublicensed or in the event that a third party acquires us or in the event that we acquire control over a PTH or a PTHrP compound that is in clinical development or is commercially available in the territory and that, following such assignment, sublicense, acquisition, or acquisition of control by us, such assignee, sublicensee, acquirer or we fail to meet the timetable under the latest revised version of the development plan approved by the joint steering committee under the License Agreement. Any failure to meet such timetable for purposes of such termination clause is deemed a material breach by us.

The License Agreement contains customary risk allocation clauses with each party indemnifying the other in respect of third-party claims arising out of or resulting from: (i) the gross negligence or willful misconduct of such party, its affiliates, licensees, distributors or contractors; (ii) any breach by such party of its representations and warranties or any other provision of the License Agreement or any related agreement; (iii) the manufacture on behalf of such party of any licensed product or compound; (iv) (in the case of Ipsen) the use, development, handling or commercialization of any licensed compound, licensed product or the Ipsen formulation technology by or on behalf of Ipsen or any of its affiliates, licensees, distributors or contractors; and (v) (in our case) the making, use, development, handling or commercialization of any licensed compound or any licensed product by or on our behalf or any of our affiliates, licensees or contractors. The License Agreement contains other customary clauses and terms as are common in similar agreements in the industry. The License Agreement was amended on September 12, 2007 and May 11, 2011.

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In January 2006, we entered into a Pharmaceutical Development Agreement as contemplated by the License Agreement with Ipsen. The Pharmaceutical Development Agreement, as amended in July 2007, February 2009, June 2010 and December 2011, provides for the supply of quantities of licensed product for use in certain clinical trials. Beaufour Ipsen Industrie SAS, a subsidiary of Ipsen, is responsible for the supply of BA058-SC in liquid form in a multi-dose cartridge for use in a pen delivery device. The multi-dose cartridges are manufactured for Beaufour Ipsen Industrie SAS by Vetter under a separate agreement between those parties, and BA058 API is manufactured by Lonza for us and is delivered to Vetter for vialing in the multi-dose cartridges. The Pharmaceutical Development Agreement expires upon the completion of the work plan entered into under the Pharmaceutical Development Agreement unless it is sooner terminated. The Pharmaceutical Development Agreement shall automatically terminate upon termination of the Ipsen license Agreement. We may terminate the Pharmaceutical Development Agreement at any time and for any reason with a specified prior notice period to Ipsen. Either party may terminate the Pharmaceutical Development Agreement upon a material breach by the other party with respect to the Pharmaceutical Development Agreement or the Ipsen License Agreement unless such other party cures the alleged breach within the notice period specified in the Development and Manufacturing Services Agreement. The Pharmaceutical Development Agreement contains other customary clauses and terms as are common in similar agreements in the industry.

**Eisai**

In June 2006, we exclusively licensed the worldwide (except Japan) rights to research, develop, manufacture and commercialize RAD1901 and related products from Eisai. Specifically, we licensed the patent application that subsequently issued as US Patent No. 7,612,114 (effective filing date December 25, 2003, statutory term extended to August 18, 2026 with 967 days of patent term adjustment due to delays by the USPTO) entitled "Selective Estrogen Receptor Modulator," the corresponding foreign patent applications and continuing patent applications. As consideration for the rights to RAD1901, we paid Eisai an initial license fee of \$500,000. In connection with the License Agreement, we have agreed to pay Eisai certain fees in the range of \$1.0 million to \$20.0 million (inclusive of the \$500,000 initial license fee), payable upon the achievement of certain clinical and regulatory milestones. As of June 30, 2012, we do not believe there were any milestones probable of being achieved in the foreseeable future.

Should a product covered by the licensed technology be commercialized, we will be obligated to pay to Eisai royalties in a variable mid-single digit range based on net sales of the product on a country-by-country basis until the later of the last to expire of the licensed patents or the expiration of data protection clauses covering such product in such country; the royalty rate shall then be subject to reduction and the royalty obligation will expire at such time as sales of lawful generic version of such product account for more than a specified minimum percentage of the total sales of all products that contain the licensed compound. The latest valid claim to expire, barring any extension thereof, is expected on August 18, 2026.

We were also granted the right to sublicense with prior written approval from Eisai, and subject to a right of first negotiation held by Eisai if we seek to grant sublicenses limited to particular Asian countries. If we sublicense the licensed technology to a third party, we will be obligated to pay Eisai, in addition to the milestones referenced above, a fixed low double digit percentage of certain fees we receive from such sublicensee and royalties in low single digit range based on net sales of the sublicensee. The license agreement expires on a country by country basis on the later of (i) date the last remaining valid claim in the licensed patents expires, lapses or is invalidated in that country, the product is not covered by data protection clauses, and the sales of lawful generic version of the product account for more than a specified percentage of the total sales of all pharmaceutical products

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containing the licensed compound in that country; or (ii) a period of 10 years after the first commercial sale of the licensed products in such country, unless it is sooner terminated.

The license agreement may be terminated by us with respect to the entire territory with prior notice to Eisai if we reasonably determine that the medical/scientific, technical, regulatory or commercial profile of the licensed product does not justify continued development or marketing. The license agreement can also be terminated by Eisai on a country by country basis at any time prior to the date on which we have filed for either an FDA NDA approval or an EMA marketing approval with respect to a licensed product, upon prior written notice to us if Eisai makes a good faith determination that we have not used commercially reasonable efforts to develop the licensed product in the territory having reference to prevailing principles and time scales associated with the development, clinical testing and government approval of products of a like nature to such licensed product, unless such default is cured within the period specified in the license agreement or if not capable of being cured within such period we commence efforts to cure and make diligent efforts to do so. Either party may also terminate the license agreement upon a material breach by the other party unless such other party cures the alleged breach within the notice period specified in the license agreement. Either party may also terminate the license agreement upon the bankruptcy or insolvency of the other party. Eisai may also terminate the license agreement with prior notice if we are acquired by, or if we transfer all of our pharmaceutical business assets (or an essential part of such assets) or more than 50% of our voting stock to, any third-party person or organization, or otherwise come under the control of, such a person or organization, whether resulting from merger, acquisition, consolidation or otherwise in the event that Eisai reasonably determines that the person or organization assuming control of us is not able to perform the license agreement with the same degree of skill and diligence that we would use, such determination being made with reference to the following criteria with respect to the person or organization assuming control of us: (1) whether such person or organization has the financial resources to assume our obligations with respect to development and commercialization of products; (2) whether such person or organization has personnel with skill and experience adequate to assume our obligations with respect to development and commercialization of products at the stage of development and commercialization as of the date of such change; and (3) whether such person or organization expressly assumes all obligations imposed on us by the license agreement and agrees to dedicate personnel and financial resources to the development and commercialization of the licensed product that are at least as great as those provided by us. Eisai shall further have the right to terminate if the acquiring person or organization: (a) has any material and active litigations with Eisai; (b) is a certain type of pharmaceutical company; or (c) is a hostile takeover bidder against us which has not been approved by our board of directors as constituted immediately prior to such change of control.

The license agreement contains customary risk allocation clauses with each party indemnifying the other in respect of third-party claims arising out of or resulting from: (i) the negligence, reckless or intentional acts or omissions of such party, its affiliates, and licensees; (ii) any breach by such party of its representations and warranties; and (iii) any personal injury arising out of the labeling, packaging, package insert, other materials or promotional claims with respect to any licensed product by such party or its affiliates, licensees or distributors in the territory (in our case) or Japan (in the case of Eisai). The license agreement contains other customary clauses and terms as are common in similar agreements in the industry.

**Lonza**

In October 2007, we entered into a Development and Manufacturing Services Agreement with Lonza. We and Lonza have entered into a series of Work Orders pursuant to the Development and

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Manufacturing Services Agreement pursuant to which Lonza has performed pharmaceutical development and manufacturing services for our BA058 product. We pay Lonza for services rendered and deliverables delivered pursuant to these work orders on a fee for service basis as specified in the applicable work statement. The Development and Manufacturing Services Agreement will expire on April 4, 2013 unless it is sooner terminated, and is subject to renewal by us for successive multiple-year terms with notice to Lonza.

The Development and Manufacturing Services Agreement or any Work Order may be terminated by either party upon a material breach by the other party with respect to the Development and Manufacturing Services Agreement unless such other party cures the alleged breach within the notice period specified in the Development and Manufacturing Services Agreement. Either party may also terminate a Work Order if force majeure conditions have prevented performance by the other party for more than a specified period of time with respect to such Work Order. Termination of any Work Order for force majeure shall not result in termination of the Development and Manufacturing Services Agreement or any other Work Orders, which shall remain in force until terminated. Either party may also terminate the Development and Manufacturing Services Agreement upon the bankruptcy or insolvency of the other party. We may also terminate the Development and Manufacturing Services Agreement or any Work Order with prior notice to Lonza for convenience. We may also terminate the Development and Manufacturing Services Agreement or any Work Order if we reasonably determine that Lonza is or will be unable to perform the applicable services in accordance with the agreed upon timeframe and budget set forth in the applicable Work Order, or if Lonza fails to obtain or maintain any material governmental licenses or approvals required in connection with such services.

The Development and Manufacturing Services Agreement contains customary risk allocation clauses with each party indemnifying the other in respect of third-party claims arising out of or resulting from: (i) the negligence or willful misconduct of such party, its affiliates and their respective officers, directors, employees and agents in performing its obligations under the Developing and Manufacturing Services Agreement; and (ii) any breach by such party of its representations and warranties under the Development and Manufacturing Services Agreement. We have agreed to indemnify Lonza in respect of third-party claims arising from or relating to the use of our product.

On December 23, 2011, we entered into Work Order No. 4, or Work Order No. 4, under that certain Development and Manufacturing Services Agreement with Lonza. Pursuant to Work Order No. 4, Lonza agreed to perform activities required for our filing of an NDA in the United States with the FDA and similar applications required by the EMA and other authorities, excluding authorities in Japan, for BA058, including production of three validation batches. These activities will provide for full process qualification and all required documentation necessary for regulatory submissions of the NDA to the FDA and the NDA equivalents to such other authorities. The total compensation payable to Lonza from us for services performed under Work Order No. 4 is up to €363,500, plus up to €1.1 million (\$460,482, plus up to \$1.4 million), for the regulatory qualification and validation campaigns (based on a rate of 180 grams of product being used in connection with the activities to be conducted as part of such campaigns).

**Charles River Laboratories**

In March 2004, we entered into a Laboratory Services and Confidentiality Agreement with Charles River Laboratories, Inc., or CRLI, and amended this agreement on November 7, 2008. We have entered into a series of letter agreements with CRLI pursuant to this Laboratory Services and Confidentiality Agreement, covering the performance of certain testing and analytical services concerning our product candidates. We pay CRLI for services rendered and deliverables delivered pursuant to these letter agreements on a fee for service basis. We are permitted to terminate any

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on-going study under the Laboratory Services and Confidentiality Agreement at any time with the specified prior notice to CRLI and subject to the payment of applicable study costs and fees. Either party may terminate the Laboratory Services and Confidentiality Agreement at any time with the specified prior notice to the other party and subject to the completion of any then on-going studies and the payment by us of any fees for such studies. Either party may also terminate the Laboratory Services and Confidentiality Agreement upon a material breach by the other party unless such other party cures the alleged breach within the notice period specified in the Laboratory Services and Confidentiality Agreement.

The Laboratory Services and Confidentiality Agreement contains customary risk allocation clauses with each party indemnifying the other in respect of third-party claims arising out of or in connection with the negligence or willful misconduct of such party. We also agreed to indemnify CRLI in respect of third-party claims arising out of or in connection with the manufacture, distribution, use, sale or other disposition by us, or any of our distributors, customers, sublicensees or representatives, of any of our products or processes and/or any other substances which are produced, purified, tested or vialled by CRLI. We also agreed to indemnify CRLI against any and all liability that may be incurred as the result of any contact by us or our employees with CRLI's animals, tissues or specimens during visits to CRLI or after delivery of any samples/specimens to us. The Laboratory Services and Confidentiality Agreement contains other customary clauses and terms as are common in similar agreements in the industry.

**GOVERNMENT REGULATION**

**United States FDA process**

The research, development, testing, manufacture, labeling, promotion, advertising, distribution and marketing, among other things, of our products are extensively regulated by governmental authorities in the United States and other countries. In the United States, the FDA regulates drugs under the Federal Food, Drug, and Cosmetic Act, or the FDCA, and its implementing regulations. Failure to comply with the applicable United States requirements may subject us to administrative or judicial sanctions, such as FDA refusal to approve pending NDAs, warning letters, product recalls, product seizures, total or partial suspension of production or distribution, injunctions, and/or criminal prosecution. We expect BA058, RAD1901 and RAD140 will each be subject to review by the FDA as a drug under NDA standards though we currently only have an IND application in relation to BA058 in the United States.

*Drug approval process.* None of our drugs may be marketed in the United States until the drug has received FDA approval. The steps required to be completed before a drug may be marketed in the United States include:

- > preclinical laboratory tests, animal studies, and formulation studies, all performed in accordance with the FDA's Good Laboratory Practice, or GLP, regulations;
- > submission to the FDA of an IND application for human clinical testing, which must become effective before human clinical trials may begin and must be updated annually;
- > adequate and well-controlled human clinical trials to establish the safety and efficacy of the drug for each indication to FDA's satisfaction;
- > submission to the FDA of an NDA;
- > satisfactory completion of an FDA inspection of the manufacturing facility or facilities at which the drug is produced to assess compliance with cGMP regulations; and

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> FDA review and approval of the NDA.

Preclinical tests include laboratory evaluation of product chemistry, toxicity, and formulation, as well as animal studies. The conduct of the preclinical tests and formulation of the compounds for testing must comply with federal regulations and requirements. The results of the preclinical tests, together with manufacturing information and analytical data, are submitted to the FDA as part of an IND application, which must become effective before human clinical trials may begin. An IND application will automatically become effective 30 days after receipt by the FDA, unless before that time the FDA raises concerns or questions about issues such as the conduct of the trials as outlined in the IND application. In such a case, the IND application sponsor and the FDA must resolve any outstanding FDA concerns or questions before clinical trials can proceed. We cannot be sure that submission of an IND application will result in the FDA allowing clinical trials to begin.

Clinical trials involve the administration of the investigational drug to human subjects under the supervision of qualified investigators. Clinical trials are conducted under protocols detailing the objectives of the study, the parameters to be used in monitoring safety, and the effectiveness criteria to be evaluated. Each protocol must be submitted to the FDA as part of the IND application.

Clinical trials necessary for product approval are typically conducted in three sequential Phases, but the Phases may overlap. The study protocol and informed consent information for study subjects in clinical trials must also be approved by an Institutional Review Board, or IRB, for each institution where the trials will be conducted, and each IRB must monitor the study until completion. Study subjects must sign an informed consent form before participating in a clinical trial. Clinical testing also must satisfy extensive good clinical practice, or GCP, regulations and regulations for informed consent and privacy of individually identifiable information. Phase 1 usually involves the initial introduction of the investigational drug into people to evaluate its short-term safety, dosage tolerance, metabolism, pharmacokinetics and pharmacologic actions, and, if possible, to gain an early indication of its effectiveness. Phase 1 studies are usually conducted in healthy individuals and are not intended to treat disease or illness. However, Phase 1b studies are conducted in healthy volunteers or in patients diagnosed with the disease, or condition for which the study drug is intended, who demonstrate some biomarker, surrogate, or possibly clinical outcome that could be considered for "proof of concept." Proof of concept in a Phase 1b study typically confirms the hypothesis that the current prediction of biomarker, or outcome benefit is compatible with the mechanism of action. Phase 2 usually involves trials in a limited patient population to: (i) evaluate dosage tolerance and appropriate dosage; (ii) identify possible adverse effects and safety risks; and (iii) evaluate preliminarily the efficacy of the drug for specific indications. Several different doses of the drug may be looked at in Phase 2 to see which dose has the desired effects. Patients are monitored for side effects and for any improvement in their illness, symptoms, or both. Phase 3 trials usually further evaluate clinical efficacy and test further for safety by using the drug in its final form in an expanded patient population. A Phase 3 trial usually compares how well the study drug works compared with an inactive placebo and/or another approved medication. One group of patients may receive the new drug being tested, while another group of patients may receive the comparator drug (already-approved drug for the disease being studied), or placebo. There can be no assurance that Phase 1, Phase 2 or Phase 3 testing will be completed successfully within any specified period of time, if at all. Furthermore, we or the FDA may suspend clinical trials at any time on various grounds, including a finding that the subjects or patients are being exposed to an unacceptable health risk.

The FDCA permits FDA and the IND application sponsor to agree in writing on the design and size of clinical studies intended to form the primary basis of an effectiveness claim in an NDA. This process is known as a Special Protocol Assessment, or SPA. Under an SPA, the FDA agrees to not later alter its position with respect to adequacy of the design, execution or analyses of the clinical trial intended to

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form the primary basis of an effectiveness claim in an NDA without the sponsor's agreement, unless the FDA identifies a substantial scientific issue essential to determining the safety or efficacy of the drug after testing begins.

Assuming successful completion of the required clinical testing, the results of the preclinical studies and of the clinical studies, together with other detailed information, including information on the manufacture and composition of the drug, are submitted to the FDA in the form of an NDA requesting approval to market the product for one or more indications. The testing and approval process requires substantial time, effort and financial resources. The FDA reviews the application and may deem it to be inadequate, and companies cannot be sure that any approval will be granted on a timely basis, if at all. The FDA may also refer the application to an appropriate advisory committee, typically a panel of clinicians, for review, evaluation and a recommendation as to whether the application should be approved. The FDA is not bound by the recommendations of the advisory committee, but it typically follows such recommendations.

The FDA has various programs, including fast track, priority review and accelerated approval, that are intended to expedite or simplify the process for reviewing drugs and/or provide for approval on the basis of surrogate endpoints. Generally, drugs that may be eligible for one or more of these programs are those intended to treat serious or life-threatening conditions, those with the potential to address unmet medical needs, and those that provide meaningful benefit over existing treatments. A company cannot be sure that any of its drugs will qualify for any of these programs, or if a drug does qualify, that the review time will be reduced.

Before approving an NDA, the FDA usually will inspect the facility or the facilities at which the drug is manufactured and will not approve the product unless the manufacturing is in compliance with cGMP regulations. If the NDA and the manufacturing facilities are deemed acceptable by the FDA, it may issue an approval letter, or in some cases, an approvable letter followed by an approval letter. Both letters usually contain a number of conditions that must be met in order to secure final approval of the NDA. When and if those conditions have been met to the FDA's satisfaction, the FDA will issue an approval letter. The approval letter authorizes commercial marketing of the drug for specific indications. As a condition of NDA approval, the FDA may require post-marketing testing and surveillance to monitor the drug's safety or efficacy, or impose other conditions. Approval may also be contingent on a REMS that limits the labeling, distribution or promotion of a drug product. Once issued, the FDA may withdraw product approval if ongoing regulatory requirements are not met or if safety problems occur after the product reaches the market.

After approval, certain changes to the approved product, such as adding new indications, making certain manufacturing changes or making certain additional labeling claims, are subject to further FDA review and approval. Before a company can market products for additional indications, it must obtain additional approvals from the FDA. Obtaining approval for a new indication generally requires that additional clinical studies be conducted. A company cannot be sure that any additional approval for new indications for any product candidate will be approved on a timely basis, or at all.

*Post-approval requirements.* Often times, even after a drug has been approved by the FDA for sale, the FDA may require that certain post-approval requirements be satisfied, including the conduct of additional clinical studies. If such post-approval conditions are not satisfied, the FDA may withdraw its approval of the drug. In addition, holders of an approved NDA are required to: (i) report certain adverse reactions to the FDA, (ii) comply with certain requirements concerning advertising and promotional labeling for their products, and (iii) continue to have quality control and manufacturing procedures conform to cGMP regulations after approval. The FDA periodically inspects the sponsor's records related to safety reporting and/or manufacturing facilities; this latter effort includes assessment

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of ongoing compliance with cGMP regulations. Accordingly, manufacturers must continue to expend time, money and effort in the area of production and quality control to maintain cGMP compliance. We have used and intend to continue to use third-party manufacturers to produce our products in clinical and commercial quantities, and future FDA inspections may identify compliance issues at the facilities of our contract manufacturers that may disrupt production or distribution, or require substantial resources to correct. In addition, discovery of problems with a product after approval may result in restrictions on a product, including withdrawal of the product from the market.

*Hatch-Waxman Act.* Under the Drug Price Competition and Patent Term Restoration Act of 1984, also known as the Hatch-Waxman Act, Congress created an abbreviated FDA review process for generic versions of pioneer (brand name) drug products. In considering whether to approve such a generic drug product, the FDA requires that an Abbreviated New Drug Application, or ANDA, applicant demonstrate, among other things, that the proposed generic drug product's active ingredient is the same as that of the reference product, that any impurities in the proposed product do not affect the product's safety or effectiveness, and that its manufacturing processes and methods ensure the consistent potency and purity of its proposed product.

The Hatch-Waxman Act provides five years of data exclusivity for new chemical entities which prevents the FDA from accepting ANDAs and 505(b)(2) applications containing the protected active ingredient. We expect to be eligible for five years of data exclusivity following any FDA approval of BA058-SC.

The Hatch-Waxman Act also provides three years of exclusivity for applications containing the results of new clinical investigations (other than bioavailability studies) essential to the FDA's approval of new uses of approved products, such as new indications, delivery mechanisms, dosage forms, strengths or conditions of use. For example, if BA058-SC is approved for commercialization and we are successful in performing a clinical trial of BA058-TD that provides a new basis for approval (a different delivery mechanism) it is possible that we may become eligible for an additional three-year period of data exclusivity which protects against the approval of ANDAs and 505(b)(2) applications for the protected use but will not prohibit the FDA from accepting or approving ANDAs or 505(b)(2) applications for other products containing the same active ingredient.

The Hatch-Waxman Act requires NDA applicants and NDA holders to provide certain information about patents related to the drug for listing in the FDA's list of Approved Drug Products with Therapeutic Equivalence Evaluations (commonly known as the Orange Book). ANDA and 505(b)(2) applicants must then certify regarding each of the patents listed with the FDA for the reference product. A certification that a listed patent is invalid or will not be infringed by the marketing of the applicant's product is called a "Paragraph IV certification." If the ANDA or 505(b)(2) applicant provides such a notification of patent invalidity or noninfringement, then the FDA may accept the ANDA or 505(b)(2) application beginning four years after approval of the NDA. If an ANDA or 505(b)(2) application containing a Paragraph IV certification is submitted to the FDA and accepted as a reviewable filing by the agency, the ANDA or 505(b)(2) applicant then must provide, within 20 days, notice to the NDA holder and patent owner stating that the application has been submitted and providing the factual and legal basis for the applicant's opinion that the patent is invalid or not infringed. The NDA holder or patent owner then may file suit against the ANDA or 505(b)(2) applicant for patent infringement. If this is done within 45 days of receiving notice of the Paragraph IV certification, a one-time 30-month stay of the FDA's ability to approve the ANDA or 505(b)(2) application is triggered. The 30-month stay begins at the end of the NDA holder's data exclusivity period, or, if data exclusivity has expired, on the date that the patent holder is notified of the submission of the ANDA. The FDA may approve the proposed product before the expiration of

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the 30-month stay if a court finds the patent invalid or not infringed or if the court shortens the period because the parties have failed to cooperate in expediting the litigation.

**European Union EMA process**

In the European Union, or the EU, medicinal products are authorized following a similar demanding process as that required in the United States. Applications are based on the ICH Common Technical Document and must include a detailed plan for pediatric approval, if such approval is sought. Medicines can be authorized in the European Union by using either the centralized authorization procedure or national authorization procedures.

*Centralized procedure.* Under the centralized procedure, after the EMA issues an opinion, the European Commission issues a single marketing authorization valid across the European Union, as well as Iceland, Liechtenstein and Norway. The centralized procedure is compulsory for human medicines that are: derived from biotechnology processes, such as genetic engineering, contain a new active substance indicated for the treatment of certain diseases, such as HIV/AIDS, cancer, diabetes, neurodegenerative disorders or autoimmune diseases and other immune dysfunctions, and officially designated orphan medicines. For medicines that do not fall within these categories, an applicant has the option of submitting an application for a centralized marketing authorization to the EMA, as long as the medicine concerned is a significant therapeutic, scientific or technical innovation, or if its authorization would be in the interest of public health.

*National authorization procedures.* There are also two other possible routes to authorize medicinal products in several countries, which are available for products that fall outside the scope of the centralized procedure:

- > *Decentralized procedure.* Using the decentralized procedure, an applicant may apply for simultaneous authorization in more than one European Union country of a medicinal product that has not yet been authorized in any European Union country and that does not fall within the mandatory scope of the centralized procedure.
  
- > *Mutual recognition procedure.* In the mutual recognition procedure, a medicine is first authorized in one European Union Member State, in accordance with the national procedures of that country. Thereafter, further marketing authorizations can be sought from other European Union countries in a procedure whereby the countries concerned agree to recognize the validity of the original, national marketing authorization.

In light of the fact that there is no policy at the EU level governing pricing and reimbursement, the 27 European Union Member States each have developed their own, often varying, approaches. In many EU Member States, pricing negotiations must take place between the holder of the marketing authorization and the competent national authorities before the product is sold in their market with the holder of the marketing authorization required to provide evidence demonstrating the pharmaco-economic superiority of its product in comparison with directly and indirectly competing products. We have reviewed our development program, proposed Phase 3 study design, and overall non-clinical and clinical data package to support future regulatory approval of BA058-SC with EMA but have not initiated any discussions with EMA with respect to seeking regulatory approval of our other products in Europe.

*Good manufacturing practices.* Like the FDA, the EMA, the competent authorities of the EU Member States and other regulatory agencies regulate and inspect equipment, facilities and processes used in the manufacturing of pharmaceutical and biologic products prior to approving a product. If, after receiving clearance from regulatory agencies, a company makes a material change in

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manufacturing equipment, location, or process, additional regulatory review and approval may be required. Once we or our partners commercialize products, we will be required to comply with cGMP, and product-specific regulations enforced by, the European Commission, the EMA and the competent authorities of EU Member States following product approval. Also like the FDA, the EMA, the competent authorities of the EU Member States and other regulatory agencies also conduct regular, periodic visits to re-inspect equipment, facilities, and processes following the initial approval of a product. If, as a result of these inspections, it is determined that our or our partners' equipment, facilities, or processes do not comply with applicable regulations and conditions of product approval, regulatory agencies may seek civil, criminal or administrative sanctions and/or remedies against us, including the suspension of our manufacturing operations or the withdrawal of our product from the market.

**Other international markets drug approval process**

In some international markets (e.g., China or Japan), although data generated in United States or EU trials may be submitted in support of a marketing authorization application, additional clinical trials conducted in the host territory, or studying people of the ethnicity of the host territory, may be required prior to the filing or approval of marketing applications within the country.

**Pricing and reimbursement**

In the United States and internationally, sales of products that we market in the future, and our ability to generate revenues on such sales, are dependent, in significant part, on the availability and level of reimbursement from third-party payors such as state and federal governments, managed care providers and private insurance plans. Private insurers, such as health maintenance organizations and managed care providers, have implemented cost-cutting and reimbursement initiatives and likely will continue to do so in the future. These include establishing formularies that govern the drugs and biologics that will be offered and also the out-of-pocket obligations of member patients for such products. In addition, particularly in the United States and increasingly in other countries, we are required to provide discounts and pay rebates to state and federal governments and agencies in connection with purchases of our products that are reimbursed by such entities. It is possible that future legislation in the United States and other jurisdictions could be enacted which could potentially impact the reimbursement rates for the products we are developing and may develop in the future and also could further impact the levels of discounts and rebates paid to federal and state government entities. Any legislation that impacts these areas could impact, in a significant way, our ability to generate revenues from sales of products that, if successfully developed, we bring to market.

There is no legislation at the EU level governing the pricing and reimbursement of medicinal products in the EU. As a result, the competent authorities of each of the 27 EU Member States have adopted individual strategies regulating the pricing and reimbursement of medicinal products in their territory. These strategies often vary widely in nature, scope and application. However, a major element that they have in common is an increased move towards reduction in the reimbursement price of medicinal products, a reduction in the number and type of products selected for reimbursement and an increased preference for generic products over innovative products. These efforts have mostly been executed through these countries' existing price-control methodologies. The government of the UK, while continuing for now to utilize its established Pharmaceutical Pricing Reimbursement Scheme approach, has announced its intentions to phasing in, by 2014, a new value-based pricing approach, at least for new product introductions. Under this approach, in a complete departure from established methodologies, reimbursement levels of each drug will be explicitly based on an assessment of value, looking at the benefits for the patient, unmet need, therapeutic innovation, and benefit to society as a

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whole. It is increasingly common in many EU Member States for Marketing Authorization Holders to be required to demonstrate the pharmaco-economic superiority of their products as compared to products already subject to pricing and reimbursement in specific countries. In order for drugs to be evaluated positively under such criteria, pharmaceutical companies may need to re-examine, and consider altering, a number of traditional functions relating to the selection, study, and management of drugs, whether currently marketed, under development, or being evaluated as candidates for research and/or development.

Future legislation, including the current versions being considered at the federal level in the United States and at the national level in EU Member States, or regulatory actions implementing recent or future legislation may have a significant effect on our business. Our ability to successfully commercialize products depends in part on the extent to which reimbursement for the costs of our products and related treatments will be available in the United States and worldwide from government health administration authorities, private health insurers and other organizations. Substantial uncertainty exists as to the reimbursement status of newly approved healthcare products by third-party payors.

**Sales and marketing**

The FDA regulates all advertising and promotion activities for products under its jurisdiction both prior to and after approval. A company can make only those claims relating to safety and efficacy that are approved by the FDA. Physicians may prescribe legally available drugs for uses that are not described in the drug's labeling and that differ from those tested by us and approved by the FDA. Such off-label uses are common across medical specialties, and often reflect a physician's belief that the off-label use is the best treatment for the patients. The FDA does not regulate the behavior of physicians in their choice of treatments, but FDA regulations do impose stringent restrictions on manufacturers' communications regarding off-label uses. Failure to comply with applicable FDA requirements may subject a company to adverse publicity, enforcement action by the FDA, corrective advertising, consent decrees and the full range of civil and criminal penalties available to the FDA.

We may also be subject to various federal and state laws pertaining to healthcare "fraud and abuse," including anti-kickback laws and false claims laws. Anti-kickback laws make it illegal for a prescription drug manufacturer to solicit, offer, receive, or pay any remuneration in exchange for, or to induce, the referral of business, including the purchase or prescription of a particular drug. Due to the breadth of the statutory provisions and the absence of guidance in the form of regulations and very few court decisions addressing industry practices, it is possible that our practices might be challenged under anti-kickback or similar laws. Moreover, recent healthcare reform legislation has strengthened these laws. For example, the recently enacted PPACA, among other things, amends the intent requirement of the federal anti-kickback and criminal healthcare fraud statutes, so that a person or entity no longer needs to have actual knowledge of this statute or specific intent to violate it. In addition, PPACA permits the government to assert that a claim that includes items or services resulting from a violation of the federal anti-kickback statute constitutes a false or fraudulent claim for purposes of the false claims statutes. False claims laws prohibit anyone from knowingly and willingly presenting, or causing to be presented for payment, to third-party payors (including Medicare and Medicaid) claims for reimbursed drugs or services that are false or fraudulent, claims for items or services not provided as claimed, or claims for medically unnecessary items or services. Our activities relating to the sale and marketing of our products may be subject to scrutiny under these laws. Violations of fraud and abuse laws may be punishable by criminal and civil sanctions, including fines and civil monetary penalties, the possibility of exclusion from federal healthcare programs (including Medicare and Medicaid) and corporate integrity agreements, which impose, among other things, rigorous

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operational and monitoring requirements on companies. Similar sanctions and penalties also can be imposed upon executive officers and employees, including criminal sanctions against executive officers under the so-called "responsible corporate officer" doctrine, even in situations where the executive officer did not intend to violate the law and was unaware of any wrongdoing.

Given the significant penalties and fines that can be imposed on companies and individuals if convicted, allegations of such violations often result in settlements even if the company or individual being investigated admits no wrongdoing. Settlements often include significant civil sanctions, including fines and civil monetary penalties, and corporate integrity agreements. If the government were to allege or convict us or our executive officers of violating these laws, our business could be harmed. In addition, private individuals have the ability to bring similar actions. Our activities could be subject to challenge for the reasons discussed above and due to the broad scope of these laws and the increasing attention being given to them by law enforcement authorities. Further, there are an increasing number of state laws that require manufacturers to make reports to states on pricing and marketing information. Many of these laws contain ambiguities as to what is required to comply with the laws. Given the lack of clarity in laws and their implementation, our reporting actions could be subject to the penalty provisions of the pertinent state authorities.

Similar rigid restrictions are imposed on the promotion and marketing of medicinal products in the EU and other countries. Laws (including those governing promotion, marketing and anti-kickback provisions), industry regulations and professional codes of conduct often are strictly enforced. Even in those countries where we are not directly responsible for the promotion and marketing of our products, inappropriate activity by our international distribution partners can have implications for us.

**Other laws and regulatory processes**

We are subject to a variety of financial disclosure and securities trading regulations as a public company in the United States, including laws relating to the oversight activities of the SEC and, if any or our capital stock becomes listed on the NASDAQ Global Market, we will be subject to the regulations of the NASDAQ Global Market. In addition, FASB, the SEC and other bodies that have jurisdiction over the form and content of our accounts, our financial statements and other public disclosure are constantly discussing and interpreting proposals and existing pronouncements designed to ensure that companies best display relevant and transparent information relating to their respective businesses.

Our international operations are subject to compliance with the Foreign Corrupt Practices Act, or the FCPA, which prohibits corporations and individuals from paying, offering to pay, or authorizing the payment of anything of value to any foreign government official, government staff member, political party, or political candidate in an attempt to obtain or retain business or to otherwise influence a person working in an official capacity. We also may be implicated under the FCPA for activities by our partners, collaborators, CROs, vendors or other agents.

Our present and future business has been and will continue to be subject to various other laws and regulations. Various laws, regulations and recommendations relating to safe working conditions, laboratory practices, the experimental use of animals, and the purchase, storage, movement, import and export and use and disposal of hazardous or potentially hazardous substances used in connection with our research work are or may be applicable to our activities. Certain agreements entered into by us involving exclusive license rights or acquisitions may be subject to national or supranational antitrust regulatory control, the effect of which cannot be predicted. The extent of government regulation, which might result from future legislation or administrative action, cannot accurately be predicted.

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**INTELLECTUAL PROPERTY**

As of September 28, 2012, we owned four issued United States patents, as well as nine pending United States patent applications and 31 pending foreign patent applications in Europe and 14 other jurisdictions, six granted foreign patents and three pending international applications. As of September 28, 2012, we had licenses to nine United States patents, one United States patent application as well as numerous foreign counterparts to many of these patents and patent applications. We licensed these patents and patent applications on an exclusive basis for all countries except Japan, though our rights in France with respect to BA058 are subject to certain co-promotion and co-marketing rights held by Ipsen and our rights to sublicense in certain Asia Pacific countries in respect of RAD1901 are subject to a right of first refusal held by Eisai, all as described herein in our discussion of our license agreements with Ipsen and Eisai.

**EMPLOYEES**

As of June 30, 2012, we employed thirteen full-time employees and two part-time employees, three of whom held Ph.D. or M.D. degrees. Nine of our employees were engaged in research and development activities and six were engaged in support administration, including business development and finance. We intend to use CROs and other third parties to perform our clinical studies and manufacturing.

**PROPERTIES**

On July 15, 2011, we entered into a lease, or the Lease, for our executive offices with Broadway Hampshire Associates Limited Partnership, or the Landlord, for approximately 5,672 rentable square feet of space in the building located at 201 Broadway, Cambridge, Massachusetts 02139.

The Lease has an initial term of three years, commencing on August 1, 2011 and expiring on July 31, 2014. Pursuant to the Lease, our monthly base rent is \$15,125.33 in year one, \$15,598.00 in year two and \$16,070.67 in year three and we are required to pay additional monthly rent in an amount equal to our proportionate share of certain taxes and operating expenses, as further set forth in the Lease.

An event of default under the Lease is defined as the occurrence of any of the following events: failure to pay rent within five business days after the same is due and payable; provided, however, on the first occasion of failure to pay rent when due the Landlord will provide us with notice and permit us a five-day period to cure such failure after providing such written notice; failure to pay additional monthly rent within ten days after the same is due and payable; failure to perform or observe any other covenant or obligation under the Lease provided the same is not cured within thirty days; the voluntary filing of bankruptcy or any other petition for the relief of debt, acquiescence in the appointment of a bankruptcy trustee or a consent to the assignment of assets; and the involuntary petition against us under the bankruptcy code which is not dismissed within sixty days.

**LEGAL PROCEEDINGS**

We are not currently involved in any material legal proceedings.

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The following table sets forth the name, age and position of each of our executive officers and directors as of September 1, 2012:

<b>Name</b>	<b>Age</b>	<b>Position(s)</b>
Michael S. Wyzga	57	President, Chief Executive Officer and Director
B. Nicholas Harvey	52	Senior Vice President, Chief Financial Officer, Treasurer and Secretary
Louis Brenner, M.D.	42	Senior Vice President and Chief Medical Officer
Michael Franken, M.D.	47	Senior Vice President and Chief Business Officer
Gary Hattersley, Ph.D.	45	Senior Vice President, Preclinical Development
Alan H. Auerbach <sup>(2)(3)</sup>	42	Director
Jonathan J. Fleming <sup>(1)</sup>	54	Director
Ansbert K. Gadicke, M.D. <sup>(2)(3)</sup>	54	Director
Kurt C. Graves <sup>(2)(3)</sup>	44	Chairman of the Board
Martin Münchbach, Ph.D. <sup>(1)</sup>	41	Director
Elizabeth Stoner, M.D. <sup>(1)</sup>	62	Director

(1) *Member of the audit committee.*

(2) *Member of the nominating and corporate governance committee.*

(3) *Member of the compensation committee.*

*Michael S. Wyzga* has served as our President and Chief Executive Officer and as a member of our board of directors since December 2011. Prior to joining us, Mr. Wyzga served in various senior management positions at Genzyme Corporation, a global biotechnology company. Mr. Wyzga joined Genzyme in February 1998 and most recently served as Executive Vice President, Finance from May 2003 until November 2011 and as Chief Financial Officer from July 1999 until November 2011. He served as a director for Altus Pharmaceuticals Inc. from 2004 to 2009. Mr. Wyzga received an M.B.A. from Providence College and a B.S. in business administration from Suffolk University. We believe Mr. Wyzga is qualified to serve as a member of our board of directors because of his extensive operational knowledge of, and executive level management experience in, the biopharmaceutical industry and significant financial experience.

*B. Nicholas Harvey* has served as our Senior Vice President, Chief Financial Officer, Treasurer and Secretary since November 2010, and served as a member of our board of directors from November 2010 until the consummation of the Merger in May 2011. Mr. Harvey served as the Chief Financial Officer and Senior Vice President of the Former Operating Company from December 2006 until the Merger. Prior to joining the Former Operating Company, Mr. Harvey served as Managing Director of Shiprock Capital, LLC, a venture capital firm, from 2003 to 2006. Prior to Shiprock Capital, Mr. Harvey served as Chief Financial Officer of a number of venture-backed companies over a 10-year period, including LifetecNet from 2001 to 2002, Transfusion Technologies from 1999 to 2000, and Transcend Therapeutics from 1993 to 1999. Mr. Harvey received a Bachelor of Economics degree and a Bachelor of Laws degree with first-class honors from the Australian National University and an M.B.A. from the Harvard Business School.

*Louis Brenner, M.D.*, has served as our Senior Vice President and Chief Medical Officer since November 2011. Prior to joining us, he served as Senior Vice President at AMAG Pharmaceuticals, a biotechnology company, from September 2006 to December 2010, where he was responsible for the

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Phase 3 studies and the successful regulatory submission for Feraheme. Prior to that, he served in progressively senior roles at Genzyme Corporation from June 2002 to September 2006, where he advanced the development and commercialization of products to treat metabolic bone disease by co-inventing the formulation for Renvela, an oral phosphate binder to treat hyperphosphatemia, and by leading the acquisition of Bone Care International, manufacturer of Hectorol, a synthetic vitamin D analog for the treatment of hyperparathyroidism. He received a B.S. in Biology from Yale University, an M.D. from Duke University and an M.B.A. from Harvard Business School.

*Michael Franken, M.D.*, has served as our Senior Vice President and Chief Business Officer since March 2012. Prior to joining us, he served as Vice President and General Manager, Solid Organ Transplantation at Genzyme Corporation, a biotechnology company, from January 2010 to November 2011, where he was responsible for a worldwide commercial transplant business. Since joining Genzyme in 2000, he served in various and progressively senior roles in business development and general management. In the area of Transplantation, he advanced the growth of the transplant products and business in the European and International markets. In the area of Immune Disease and Fibrosis, he was responsible for licensing and transactions, and for progressing a portfolio of clinical-development-stage assets. He received an M.D. from the University of Heidelberg, Germany, and an M.S. in Health Policy and Management from the Harvard School of Public Health.

*Gary Hattersley, Ph.D.*, has served as our Senior Vice President of Preclinical Development since December 2011. He served as our Vice President of Biology from May 2011 to December 2011 and served in the same capacity at the Former Operating Company from April 2008 until the Merger. He also served as Senior Director of Research of the Former Operating Company from 2006 to 2008 and as Director of Disease Biology & Pharmacology from 2003 to 2006. Prior to joining the Former Operating Company, Dr. Hattersley was a Senior Scientist at Millennium Pharmaceuticals from 2000 to 2003 with responsibility for the discovery and development of novel small-molecule agents for the treatment of osteoporosis and other metabolic bone diseases. Dr. Hattersley also held positions at Genetics Institute/Wyeth Research from 1992 to 2000 investigating the application of the bone morphogenetic proteins in bone and connective tissue repair and regeneration. Dr. Hattersley received a Ph.D. in Experimental Pathology from St. George's Hospital Medical School.

*Alan H. Auerbach* has served on our board of directors since May 2011 and served as a member of the board of directors of the Former Operating Company from October 2010 until the Merger. Mr. Auerbach is currently the Founder, Chief Executive Officer, President and Chairman of the Board of Puma Biotechnology, Inc., a company dedicated to in-licensing and developing drugs for the treatment of cancer and founded in 2010. Previously, Mr. Auerbach founded Cougar Biotechnology in May 2003 and served as the company's Chief Executive Officer, President and as a member of its board of directors until July 2009 when Cougar was acquired by Johnson & Johnson for approximately \$1 billion. From July 2009 until January 2010, Mr. Auerbach served as the Co-Chairman of the Integration Steering Committee at Cougar (as part of Johnson & Johnson) that provided leadership and oversight for the development and global commercialization of Cougar's lead product candidate, abiraterone acetate, for the treatment of advanced prostate cancer. Prior to founding Cougar, from June 1998 to April 2003, Mr. Auerbach was a Vice President, Senior Research Analyst at Wells Fargo Securities, where he was responsible for research coverage of small-and middle-capitalization biotechnology companies, with a focus on companies in the field of oncology. Mr. Auerbach received a B.S. in Biomedical Engineering from Boston University and an M.S. in Biomedical Engineering from the University of Southern California. We believe Mr. Auerbach is qualified to serve as a member of our board of directors because of his business and professional experience, including his leadership of Cougar Biotechnology in drug development, private and public financings and a successful sale of the business.

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*Jonathan J. Fleming* has served on our board of directors since May 2011 and served as a member of the board of directors of the Former Operating Company from March 2009 until the Merger. Mr. Fleming is the Managing General Partner of Oxford Bioscience Partners, an international venture capital firm specializing in life science technology-based investments, which he joined in August 1996 as a General Partner. Prior to joining Oxford Bioscience Partners, Mr. Fleming was a Founding General Partner of MVP Ventures from 1988 to 1996. Mr. Fleming is also a co-founder of Medica Venture Partners, a venture capital investment firm specializing in early-stage healthcare and biotechnology companies in Israel. Mr. Fleming currently serves on the board of directors of Cytologix Corporation, Dicerna Pharmaceuticals, Laboratory Partners, Inc. and Railrunner Systems NA Inc. Mr. Fleming also currently serves on the board of managers of Leerink Swann Holdings LLC and on the board of trustees of Leerink Swann Massachusetts Business Trust. He previously served on the board of directors of Memory Pharmaceuticals Corp. from 2006 to 2008. He received an M.P.A. from Princeton University and a B.A. from the University of California, Berkeley. We believe Mr. Fleming is qualified to serve as a member of our board of directors because of his business and professional experience, and brings to our board of directors strategic insight and experience with his long career in venture capital and investing in life sciences technology-based firms for over 20 years.

*Ansbert K. Gadicke, M.D.*, has served on our board of directors since May 2011 and served as a member of the board of directors of the Former Operating Company from November 2003 until the Merger. Dr. Gadicke has been the Co-Founder and Managing Director of MPM Capital, a venture capital firm, since August 1996. Dr. Gadicke received an M.D. from J.W. Goethe University in Frankfurt. Dr. Gadicke is a director of Dragonfly Sciences, Inc., Solasia Pharma K.K. and Verastem, Inc. He served on the board of directors of Pharmasset, Inc. from 1999 to 2007 and PharmAthene, Inc. from 2004 to 2007. We believe Dr. Gadicke is qualified to serve as a member of our board of directors because of his business and professional experience.

*Kurt C. Graves* has served on our board of directors since May 2011 and as Chairman of our board of directors since November 2011. Mr. Graves has been the Chairman, President and Chief Executive Officer of Intarcia Therapeutics, a biotechnology company, since April 2012. He was an independent consultant from October 2009 to April 2012. Mr. Graves has served as Executive Chairman of Biolex Therapeutics, a biotechnology company, since November 2010, and served as Executive Chairman of Intarcia Therapeutics from August 2010 to April 2012. Previously, he served as Executive Vice President, Chief Commercial Officer and Head of Strategic Development at Vertex Pharmaceuticals Inc. from July 2007 to October 2009, where he led the development of the company's HCV and CF programs, as well as the acquisition of Virochem Pharmaceuticals. Prior to joining Vertex, Mr. Graves held various leadership positions at Novartis Pharmaceuticals from 1999 to June 2007, including serving as a member of the Executive Committee and the Global Head of the General Medicines Business. He was also the first Chief Marketing Officer for the Pharmaceuticals division from September 2003 to June 2007. He currently serves as a director of Alevium Pharmaceuticals, Biolex Therapeutics, Intarcia Therapeutics, Pulmatrix Therapeutics and Springleaf Therapeutics. Mr. Graves received a B.S. in Biology from Hillsdale College. We believe Mr. Graves is qualified to serve as a member of our board of directors because of his extensive business and professional experience.

*Martin Münchbach, Ph.D.*, has served on our board of directors since May 2011. Dr. Münchbach has managed BB Biotech Ventures II, a venture capital fund, since he launched it in 2004. Dr. Münchbach received a Ph.D. in Protein Chemistry, a M.Sc. in Biochemistry and a Master in Industrial Engineering and Management from the Swiss Federal Institute of Technology (ETH). Dr. Münchbach currently serves on the board of directors of Atlas Genetics LTD, BioVascular Inc., Sonetik AG and Tioga Pharmaceuticals Inc, and he served as a director of Optimer Pharmaceuticals, Inc. from 2005 to 2008.

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We believe Dr. Münchbach is qualified to serve on our board of directors because of his extensive business and professional experience.

*Elizabeth Stoner, M.D.*, has served on our board of directors since May 2011. Dr. Stoner has been a Managing Director at MPM Capital since October 2007. Dr. Stoner is the Chief Development Officer of Rhythm Pharmaceuticals, a biotechnology company. Prior to joining MPM Capital, Dr. Stoner served in various roles, most recently as Senior Vice President of Global Clinical Development Operations at Merck Research Laboratories, since 1985. Dr. Stoner currently serves as a director of Momenta Pharmaceuticals Inc., and she served as a director of Metabasis Therapeutics, Inc. from 2009 to 2010. Dr. Stoner received an M.D. from Albert Einstein College of Medicine, an M.S. in Chemistry from the State University of New York at Stony Brook and a B.S. in Chemistry from Ottawa University, Kansas. We believe Dr. Stoner is qualified to serve on our board of directors because of her knowledge and expertise in the development of pharmaceutical products.

**SCIENTIFIC ADVISORY BOARD**

Our management team is supported by a scientific advisory board comprised of leading academic and industry scientists. Our scientific advisory board consists of:

John Katzenellenbogen, Ph.D. <i>Founder</i>	Swanlund Professor of Chemistry at the University of Illinois at Urbana-Champaign
C. Richard Lyttle, Ph.D. <i>Chairman of Scientific Advisory Board</i>	Previously President and CEO of Radius; senior roles at Wyeth, including VP of Discovery for Women's Health and Bone
Stavros C. Manolagas, M.D., Ph.D. <i>Founder</i>	Professor of Medicine and Director of the Division of Endocrinology and Metabolism, University of Arkansas for Medical Sciences
Donald P. McDonnell, Ph.D.	Glaxo-Wellcome Professor of Molecular Cancer Biology, Chairman of the Department of Pharmacology and Cancer Biology and Professor of Medicine at Duke University School of Medicine
John T. Potts, M.D., D.Sc. <i>Founder</i>	Professor of Clinical Medicine at the Massachusetts General Hospital and Harvard Medical School; internationally recognized authority on calcium metabolism and governing hormonal mechanisms

Our management team is also supported by Michael Rosenblatt, M.D., who shares his academic and industry expertise with us as an observer to our Board of Directors and Scientific Advisory Board. Dr. Rosenblatt is currently the Executive Vice President and Chief Medical Officer for Merck & Co. Prior to joining Merck, Mr. Rosenblatt was Dean of Tufts University School of Medicine and before that, he was the George R. Minot Professor of Medicine at Harvard Medical School. Dr. Rosenblatt has also served as Chief of the Division of Bone and Mineral Metabolism Research at Beth Israel Deaconess Medical Center, Harvard faculty dean, senior vice president for Academic Programs at CareGroup and Beth Israel Deaconess Medical Center, and Director of the Harvard-MIT Division of Health Sciences and Technology.

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**BOARD COMPOSITION**

Our board of directors currently consists of seven members, all of whom were elected as directors pursuant to the board composition provisions of our stockholders' agreement among us and our stockholders. The board composition provisions of our stockholders' agreement will terminate upon the listing of our common stock on the NASDAQ Global Market and there will be no further contractual obligations regarding the election of our directors. Our directors hold office until their successors have been elected and qualified or until their earlier death, resignation or removal.

In accordance with our restated certificate of incorporation to take effect upon the listing of our common stock on the NASDAQ Global Market, our board of directors will be divided into three classes with staggered three-year terms. At each annual meeting of stockholders, the successors to directors whose terms then expire will be elected to serve from the time of election and qualification until the third annual meeting following their election. After the consummation of this offering, our directors will be divided among the three classes as follows:

- > the Class I directors will be Ansbert K. Gadicke, Kurt C. Graves and Michael S. Wyzga, and their terms will expire at the first annual meeting of stockholders held after the consummation of this offering;
- > the Class II directors will be Jonathan J. Fleming and Martin Münchbach, and their terms will expire at the second annual meeting of stockholders held after the consummation of this offering; and
- > the Class III directors will be Alan H. Auerbach and Elizabeth Stoner, and their terms will expire at the third annual meeting of stockholders held after the consummation of this offering.

Our directors may be removed only for cause by the affirmative vote of the holders of at least two-thirds of the outstanding shares of our common stock.

Our restated certificate of incorporation will provide that the authorized number of directors may be changed only by resolution of the board of directors. Any additional directorships resulting from an increase in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of one-third of the directors. The division of our board of directors into three classes with staggered three-year terms may delay or prevent a change of our management or a change of control of us.

**DIRECTOR INDEPENDENCE**

Our board of directors has determined that all of our directors, other than Mr. Wyzga, are independent directors, as defined by applicable NASDAQ Marketplace Rules. In making such determination, the board of directors considered the relationships that each such non-employee director has with our company and all other facts and circumstances that the board of directors deemed relevant in determining their independence, including the beneficial ownership of our capital stock by each non-employee director.

**COMMITTEES OF THE BOARD OF DIRECTORS**

Our board of directors has established an audit committee, a compensation committee and a nominating and corporate governance committee, each of which operates under a charter that has been approved by our board. Our board of directors has determined that each of the members of the audit committee, the compensation committee and the nominating and corporate governance committee are independent as defined under the applicable rules and regulations of the SEC and the NASDAQ

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Marketplace Rules, including, in the case of each of the members of our audit committee, the independence requirements contemplated by Rule 10A-3 under the Securities Exchange Act of 1934, as amended, or the Exchange Act.

**Audit committee**

Our audit committee oversees our corporate accounting and financial reporting process. Among other matters, the audit committee:

- > appoints the independent registered public accounting firm;
- > evaluates the independent registered public accounting firm's qualifications, independence and performance;
- > determines the engagement of the independent registered public accounting firm;
- > reviews and approves the scope of the annual audit and the audit fee;
- > discusses with management and the independent registered public accounting firm the results of the annual audit and the review of our quarterly financial statements;
- > approves the retention of the independent registered public accounting firm to perform any proposed permissible non-audit services;
- > monitors the rotation of partners of the independent registered public accounting firm on our engagement team as required by law;
- > reviews our financial statements and our management's discussion and analysis of financial condition and results of operations to be included in our annual and quarterly reports to be filed with the SEC;
- > reviews our critical accounting policies and estimates; and
- > annually reviews the audit committee charter and the committee's performance.

The current members of the audit committee are Jonathan J. Fleming, Martin Münchbach and Elizabeth Stoner. Mr. Fleming serves as the chairman of the committee. All members of our audit committee meet the requirements for financial literacy under the applicable rules and regulations of the SEC and The NASDAQ Stock Market. Our board of directors has determined that Mr. Fleming is an "audit committee financial expert" as defined under the applicable rules of the SEC and has the requisite financial sophistication as defined under the applicable rules and regulations of The NASDAQ Stock Market.

**Compensation committee**

Our compensation committee reviews and recommends policies relating to compensation and benefits of our officers and employees. The compensation committee:

- > reviews and approves corporate goals and objectives relevant to compensation of our Chief Executive Officer and other executive officers;
- >

evaluates the performance of these officers in light of those goals and objectives;

>

sets the compensation of these officers based on such evaluations;

>

approves grants of stock options and other awards under our stock plans; and

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- > will review and evaluate, at least annually, the performance of the compensation committee and its members, including compliance of the compensation committee with its charter.

The members of the compensation committee are Alan H. Auerbach, Ansbert K. Gadicke and Kurt C. Graves. Mr. Gadicke serves as the chairman of the committee.

**Nominating and corporate governance committee**

The nominating and corporate governance committee is responsible for:

- > making recommendations to our board of directors regarding candidates for directorships and the size and composition of our board of directors;
- > overseeing our corporate governance policies; and
- > reporting and making recommendations to our board of directors concerning governance matters.

The members of the nominating and corporate governance committee are Alan H. Auerbach, Ansbert K. Gadicke and Kurt C. Graves. Mr. Graves serves as the chairman of the committee.

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## Summary compensation table

The following table summarizes all compensation earned by our President and Chief Executive Officer and other named executive officers during 2011 and 2010.

Name and principal position	Year	Salary (\$)	Option awards (\$)(7)	Non-equity incentive plan compensation (\$)(8)	All other compensation (\$)(9)	Total (\$)
Michael S. Wyzga, President and Chief Executive Officer <sup>(1)</sup>	2011	38,141 <sup>(5)</sup>	3,351,771	0	0	3,389,912
	2010	0	0	0	0	0
C. Richard Lyttle, Former Chief Scientific Officer <sup>(2)</sup>	2011	389,980	504,029	155,992	1,715	1,051,716
	2010	378,622	0	189,311	1,715	569,648
B. Nicholas Harvey, Treasurer and Chief Financial Officer	2011	288,936	157,508	82,347	1,305	530,096
	2010	278,492	0	105,827	1,305	385,624
Louis Brenner, Chief Medical Officer <sup>(3)</sup>	2011	47,500 <sup>(6)</sup>	957,403	14,143	20	1,019,066
	2010	0	0	0	0	0
Louis O'Dea, Former Sr. Vice President and Chief Medical Officer <sup>(4)</sup>	2011	347,125	176,409	0	46,210	569,744
	2010	319,363	0	130,939	1,032	451,334

- (1) Mr. Wyzga became our President and Chief Executive Officer on December 5, 2011.
- (2) Dr. Lyttle served as our President and Chief Executive Officer until December 5, 2011 and as our Chief Scientific Officer until June 1, 2012.
- (3) Dr. Brenner joined our company on November 9, 2011 and became Chief Medical Officer on December 1, 2011.
- (4) Dr. O'Dea resigned as our employee on November 14, 2011.
- (5) The amount shown represents actual salary earned in 2011 based upon an annual base salary of \$500,000.
- (6) The amount shown represents actual salary earned in 2011 based upon an annual base salary of \$330,000.
- (7) Represents the aggregate grant date fair value of awards of stock options granted during the year computed in accordance with FASB ASC 718. For additional information, including information regarding the assumptions used when valuing the awards, refer to Note 2 to our financial statements included elsewhere in this prospectus.
- (8) Represents bonus amounts earned under our annual performance-based cash bonus program.
- (9) Except for Dr. O'Dea in 2011, all amounts are attributable to life insurance premiums paid by us. The 2011 amount for Dr. O'Dea represents \$1,452 attributable to life insurance premiums paid by us and \$41,118 in severance payments and \$3,640 for medical and dental insurance premium reimbursements made in connection with his resignation as our employee.

**NARRATIVE DISCLOSURE TO SUMMARY COMPENSATION TABLE**

Prior to the Merger in May 2011, we paid no compensation to our named executive officers and we had no contracts, agreements, plans or arrangements, whether written or unwritten, that provided for payments to any named executive officers. However, to provide meaningful disclosure, we have included in the table above compensation that was paid to our named executive officers by the Former Operating Company

prior to the Merger as well as compensation that we paid to named executive officers following the Merger.

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**Summary compensation table**

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We do not currently, and the Former Operating Company did not prior to the Merger, have any formal policy for determining the compensation of executive officers. Base salaries for our named executive officers have been established through arm's length negotiation at the time an executive was hired, whether by us or by the Former Operating Company. The Former Operating Company's board of directors annually reviewed and evaluated, with input from the President and Chief Executive Officer, the need for adjustment of the base salaries of named executive officers based on changes and expected changes in the scope of an executive's responsibilities, including promotions, the individual contributions made by and performance of the executive during the prior fiscal year, the executive's performance over a period of years, overall labor market conditions, the relative ease or difficulty of replacing the executive with a well-qualified person, the Former Operating Company's overall growth and development as a company and general salary trends in the Former Operating Company's industry.

Each named executive officer is eligible to receive an annual performance-based cash bonus, in an amount up to a fixed percentage of his base salary. Prior to the Merger, at the beginning of each year the Former Operating Company's board developed, with input from the President and Chief Executive Officer, a list of goals for the year that would be used as a guideline to assess the annual performance of the named executive officers. As soon as practical after the year was completed, the board reviewed actual performance against the stated goals and determined subjectively what it believed to be the appropriate level of cash bonus, if any. Following the Merger, our compensation committee continued this practice for calendar year 2011.

Dr. O'Dea resigned as our employee on November 14, 2011. Under the terms of a separation agreement between us and Dr. O'Dea, we agreed to pay Dr. O'Dea an aggregate severance amount of \$164,472, paid in accordance with our normal payroll procedures over the six-month period commencing on the next regularly scheduled payroll date after the effective date of the agreement. We also agreed to reimburse Dr. O'Dea for the portion of any COBRA premiums which he incurs that we would have paid had he remained employed by us during such six-month period. In addition, the severance agreement provides that Dr. O'Dea forfeited any stock options that were unvested as of November 14, 2011 and may exercise the portion of his stock options that was vested as of November 14, 2011 until February 14, 2012, subject to the terms and conditions of the applicable stock incentive plans and Dr. O'Dea's continued compliance with the terms of his separation agreement and a confidentiality and non-competition agreement between us and Dr. O'Dea, pursuant to which Dr. O'Dea has agreed not to compete with the business of the Company or solicit for hire our employees for a period of one year following his termination.

Each of the named executive officers, other than Dr. O'Dea, are at-will employees eligible for discretionary bonus and equity incentive awards with certain severance rights discussed further below. The following named executive officers have the following target bonus percentages:

- > Mr. Wyzga 50%
- > Dr. Lyttle 40%
- > Mr. Harvey 30%
- > Mr. Brenner 30%

For 2011, each named executive officer, other than Mr. Wyzga, had the opportunity to achieve a bonus equal to the named executive officer's respective target bonus by achievement of individual performance goals, with the compensation committee reserving the right to award amounts in excess of target bonus on a discretionary basis. Mr. Wyzga was not eligible for a bonus in 2011. The individual goals for 2011 were of different weighted importance and included completion of certain financing and public offering objectives, completion of organizational objectives and the

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implementation and successful execution of various elements related to the preclinical studies and clinical trials for our products, including the Phase 3 study for our BA058-SC product. In December 2011, the compensation committee considered performance against these goals and determined to award the named executive officers bonus payments in the amounts set forth in the Non-equity incentive plan compensation column of the summary compensation table above. Dr. O'Dea did not qualify to receive a bonus in 2011.

**EMPLOYMENT, CONSULTING, SEVERANCE AND CHANGE IN CONTROL ARRANGEMENTS**

On December 1, 2011, we entered into a letter employment agreement with Mr. Wyzga, pursuant to which Mr. Wyzga agreed to serve as our Chief Executive Officer effective December 5, 2011. The letter agreement provides for an initial base salary of \$500,000 and the opportunity to earn an annual cash incentive award based on performance with a target value equal to 50% of Mr. Wyzga's annual base salary beginning in 2012. In addition, Mr. Wyzga is eligible to receive a one-time special bonus ranging from 25% to 50% of his annual base salary based upon the attainment of certain milestones relating to our consummation of a successful financing transaction.

In the event Mr. Wyzga's employment is terminated by us without cause or due to Mr. Wyzga's resignation for good reason, then subject to his executing a general release of claims, Mr. Wyzga will be entitled to receive:

- > base salary continuation payments for 12 months;
- > payment of, or reimbursement for, continued medical care premiums for 12 months; and
- > the annual bonus that he would have earned if he remained employed through the end of the year in which his termination occurs, based upon actual performance as determined by the board.

If Mr. Wyzga's employment is terminated without cause or due to Mr. Wyzga's resignation for good reason within 12 months following a change in control of us, then subject to his executing a general release of claims, Mr. Wyzga will be entitled to receive the severance benefits described in the first two bullet points above. In such case, Mr. Wyzga will also be entitled to receive:

- > payment of his target annual bonus for the year in which termination occurs; and
- > accelerated vesting of all outstanding equity awards.

On November 30, 2011, we entered into, and on February 28, 2012, we amended, a transition agreement with Dr. Lyttle pursuant to which Dr. Lyttle resigned as our President and Chief Executive Officer and as a member of our board of directors, effective as of December 5, 2011, and agreed to serve as our Chief Scientific Officer through June 1, 2012. The amended transition agreement provides that Dr. Lyttle continued to receive his base annualized salary at the rate in effect as of immediately prior to the effective date of the agreement through June 1, 2012 and will be eligible to earn for 2012 a discretionary cash performance bonus under our bonus plan or program applicable to senior executives based on a target bonus amount equal to 40% of Dr. Lyttle's annualized base salary, but with the actual amount of any such bonus being determined on the basis of the attainment of the following individual and company performance objectives: (1) the re-establishment of our Scientific Advisory Board by June 1, 2012 and (2) Dr. Lyttle's assistance in the closing of a financing transaction in 2012.

Upon the automatic termination of Dr. Lyttle's employment pursuant to the amended transition agreement on June 1, 2012, a consulting agreement entered into on February 28, 2012 superseded the amended transition agreement and Dr. Lyttle transitioned from the Chief Scientific Officer of our company to an independent consultant of our company as Chairman of our Scientific Advisory Board.

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**Summary compensation table**

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In connection with this transition, Dr. Lyttle is entitled to receive a prorated portion of his 2012 bonus, based on the number of days in the calendar year through June 1, 2012. During the term of the consulting agreement, Dr. Lyttle will be entitled to receive an annual fee equal to \$30,000 and any outstanding options to purchase our common stock as of June 1, 2012 will continue to vest pursuant to their terms and will remain exercisable until the later to occur of (i) the first anniversary of the termination of Dr. Lyttle's services under the consulting agreement and (ii) the date that is 30 days after the date on which our common stock first becomes listed on a national stock exchange (but in no event later than the option's maximum term). The consulting agreement may be terminated by either party upon 30 days' written notice.

On November 9, 2011, we entered into a letter employment agreement with Dr. Brenner pursuant to which Dr. Brenner commenced employment on that date and agreed to serve as our Chief Medical Officer effective December 1, 2011. The letter agreement provides for an initial base salary of \$330,000 and the opportunity to earn an annual cash incentive award based on performance with a target value equal to 30% of Dr. Brenner's annual base salary, prorated for any partial year of employment.

In the event Dr. Brenner's employment is terminated by us without cause or due to Dr. Brenner's resignation for good reason, then subject to his executing a general release of claims, Dr. Brenner will be entitled to receive:

- > base salary continuation payments for nine months;
- > payment of, or reimbursement for, continued medical care premiums for six months;
- > a prorated portion of his annual bonus for the year in which his termination occurs, if the board determines to award him a bonus for the year; and
- > if the termination occurs within the first twelve months of his employment, accelerated vesting of his outstanding equity awards that would have vested based solely upon the passage of time during the six-month period following his termination.

If Dr. Brenner's employment is terminated without cause or due to Dr. Brenner's resignation for good reason within 12 months following a change in control of us, then subject to his executing a general release of claims, Dr. Brenner will be entitled to receive the severance benefits described in the first two bullet points above. In such case, Dr. Brenner will also be entitled to receive:

- > payment of a prorated portion of his target annual bonus for the year in which termination occurs; and
- > accelerated vesting of all outstanding equity awards.

Mr. Harvey's agreement provides that if his employment is terminated without cause or he resigns with good reason, he will receive six months' salary in severance payments, payable in accordance with the payroll practice then in effect, and the continuation of health insurance at no cost to him for six months and all options which would have vested in the six months following such termination shall become immediately exercisable. If we are acquired, 50% of his then unvested options will become immediately vested and exercisable.

On March 27, 2012, we entered into a letter employment agreement with Dr. Franken pursuant to which Dr. Franken commenced employment and agreed to serve as our Chief Business Officer effective that date. The letter agreement provides for an initial base salary of \$275,000 and the opportunity to earn an annual cash incentive award based on performance with a target value equal to 30% of Dr. Franken's annual base salary, prorated for any partial year of employment.

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In the event Dr. Franken's employment is terminated by us without cause or due to Dr. Franken's resignation for good reason, then subject to his executing a general release of claims, Dr. Franken will be entitled to receive:

- > base salary continuation payments for nine months;
- > payment of, or reimbursement for, continued medical care premiums for six months; and
- > a prorated portion of his annual bonus for the year in which his termination occurs, if the board determines to award him a bonus for the year.

If Dr. Franken's employment is terminated without cause or due to Dr. Franken's resignation for good reason within 12 months following a change in control of us, then subject to his executing a general release of claims, Dr. Franken will be entitled to receive the severance benefits described in the first two bullet points above. In such case, Dr. Franken will also be entitled to receive:

- > payment of a prorated portion of his target annual bonus for the year in which termination occurs; and
- > accelerated vesting of all outstanding equity awards.

**OUTSTANDING EQUITY AWARDS AT FISCAL YEAR END**

The following table sets forth information regarding the outstanding equity awards held by our named executive officers as of December 31, 2011. Prior to the Merger, we did not grant equity awards to our named executive officers. In connection with the Merger, we assumed all the options granted to our named executive officers by the Former Operating Company.

Name	Number of securities underlying unexercised options		Option exercise price	Option expiration date
	Exercisable	Unexercisable		
Michael S. Wyzga	0	1,530,000 <sup>(1)</sup>	\$ 3.89	12/14/21
C. Richard Lyttle	108,332	0	\$ 1.50	10/28/14
	91,845	0	\$ 0.90	7/12/17
	202,672	0	\$ 1.20	5/8/18
	86,376	0	\$ 1.20	12/3/18
	17,372	260,575 <sup>(2)</sup>	\$ 3.22	11/6/21
B. Nicholas Harvey	53,389	0	\$ 0.90	7/12/17
	63,335	0	\$ 1.20	5/8/18
	20,244	6,748 <sup>(3)</sup>	\$ 1.20	12/3/18
	5,429	81,429 <sup>(2)</sup>	\$ 3.22	11/6/21
Louis Brenner	0	351,400 <sup>(4)</sup>	\$ 3.89	12/14/21
	0	62,700 <sup>(5)</sup>	\$ 3.89	12/14/21
	0	37,600 <sup>(6)</sup>	\$ 3.89	12/14/21
Louis O'Dea	22,642	0	\$ 1.50	2/14/12
	41,547	0	\$ 0.90	2/14/12
	70,935	0	\$ 1.20	2/14/12
	22,675	0	\$ 1.20	2/14/12
	6,081	0	\$ 3.22	2/14/12

(1)

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*These stock options vest as to 25% of the underlying shares on December 5, 2012 and as to 6.25% of such shares on the first day of each calendar quarter thereafter.*

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- (2) *These stock options vest in fifteen substantially equal installments on the first day of each calendar quarter beginning on January 1, 2012.*
- (3) *These stock options vest in four equal installments on the first day of each calendar quarter ending October 1, 2012.*
- (4) *These stock options vest as to 25% of the underlying shares on November 9, 2012 and as to 6.25% of such shares the first day of each calendar quarter thereafter.*
- (5) *These stock options vest upon the date that the board of directors resolves that an NDA for our BA058-SC product has been submitted to the FDA on or prior to a specified date.*
- (6) *These stock options vest upon the date that the board of directors determines that certain enrollment targets are achieved on or prior to a specified date with respect to the Phase 3 study of our BA058-SC product.*

**DIRECTOR COMPENSATION**

The following table summarizes the compensation for director services earned by our non-employee directors during 2011. No director who is also an employee receives additional compensation for providing director services. Historically, neither we nor the Former Operating Company has had any formal policy governing the compensation of directors, instead negotiating compensation for individual directors at the time they commence providing services. Prior to this offering, Mr. Graves and Mr. Auerbach each received an annual cash retainer of \$7,500 and \$1,500 per board or committee meeting attended. None of our other directors received cash compensation for providing director services to us.

In connection with this offering, we have adopted a non-employee director compensation policy. The policy provides for non-employee directors to receive an annual cash retainer of \$25,000 plus one or more additional annual cash retainers ranging from \$5,000 to \$10,000 for service on a board committee, as well as grants of options to purchase 30,000 shares of our common stock upon their commencing service with us (vesting over a four-year period) and 10,000 shares of our common stock annually thereafter (vesting within one year of grant).

During 2011, we did not grant equity-based awards as compensation to any of our non-employee directors other than Dr. Stoner and Mr. Graves, each of whom received an option to purchase shares of our common stock in November 2011 in recognition of commencing service on our board of directors. Dr. Stoner received an option to purchase up to 60,000 shares, and Mr. Graves received an option to purchase up to 256,666 shares. These options vest in twelve equal installments, with the first installment vesting on the grant date and the remaining installments vesting on the first day of each calendar quarter through July 1, 2014. The exercise price of these options is \$3.22 per share, the fair value of our common stock on the date of grant as determined by our board of directors.

<b>Name and principal position</b>	<b>Fees earned or paid in cash (\$)</b>	<b>Option awards \$(1)</b>	<b>Total (\$)</b>
Alan H. Auerbach <sup>(2)</sup>	9,000	0	9,000
Jonathan J. Fleming <sup>(3)</sup>	0	0	0
Ansbert K. Gadicke, M.D. <sup>(4)</sup>	0	0	0
Kurt C. Graves <sup>(5)</sup>	12,500	457,504	470,004
Martin Münchbach, Ph.D. <sup>(6)</sup>	0	0	0
Elizabeth Stoner, M.D. <sup>(7)</sup>	0	106,949	106,949

- (1) *Represents the aggregate grant date fair value of awards of stock options granted during the year computed in accordance with FASB ASC 718. For additional information, including information regarding the assumptions used when valuing the awards, refer to Note 2 to our financial statements included elsewhere in this prospectus.*



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**Summary compensation table**

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- (2) *As of December 31, 2011, Mr. Auerbach held no stock awards and 256,666 options to purchase shares of our common stock.*
- (3) *As of December 31, 2011, Mr. Fleming did not hold any stock awards or option awards.*
- (4) *As of December 31, 2011, Dr. Gadicke did not hold any stock awards or option awards.*
- (5) *As of December 31, 2011, Mr. Graves held no stock awards and 256,666 options to purchase shares of our common stock.*
- (6) *As of December 31, 2011, Dr. Münchbach did not hold any stock awards or option awards.*
- (7) *As of December 31, 2011, Dr. Stoner held no stock awards and 60,000 options to purchase shares of our common stock.*

**2003 LONG-TERM INCENTIVE PLAN**

In the Merger, we assumed the Former Operating Company's 2003 Long Term Incentive Plan, or the 2003 Plan, and all options to acquire common stock of the Former Operating Company issued thereunder. The 2003 Plan is intended to assist us and our affiliates in attracting and retaining employees and consultants of outstanding ability and to promote the identification of their interests with those of our stockholders and our affiliates. Only incentive stock options, or ISOs, and non-statutory stock options have been granted under the 2003 Plan. As of December 31, 2011, we had 1,256,078 options issued and unexercised under the 2003 Plan, 1,017,519 of which were vested. In connection with the adoption and approval of the 2011 Equity Incentive Plan, we determined not to make any further awards under the 2003 Plan after November 7, 2011, which we refer to as the "suspension" of the 2003 Plan. No new awards may be granted under the 2003 Plan, but awards outstanding at the time of suspension remain outstanding in accordance with their terms. If an option or right expires or terminates for any reason (other than termination by virtue of the exercise of a related option or related right, as the case may be) without having been fully exercised, if shares of restricted stock are forfeited, or if shares covered by an incentive share award or performance award are not issued or are forfeited, the unissued or forfeited shares that had been subject to the award become available for the grant of additional awards under the 2011 Equity Incentive Plan.

*Administration.* The compensation committee of the board of directors administers the 2003 Plan. In the event that there is no compensation committee, the board of directors administers the plan. The committee or the board may delegate authority to administer the 2003 Plan to any other committee.

*Incentive Stock Options.* ISOs are intended to qualify as ISOs under Section 422 of the Internal Revenue Code and are granted pursuant to incentive stock option agreements. The plan administrator determines the exercise price for an ISO, which may not be less than 100% of the fair market value of the stock underlying the option determined on the date of grant. Notwithstanding the foregoing, incentive options granted to employees who own, or are deemed to own, more than 10% of our voting stock, must have an exercise price not less than 110% of the fair market value of the stock underlying the option determined on the date of grant.

*Nonstatutory Stock Options.* Nonstatutory stock options are granted pursuant to nonstatutory stock option agreements. The plan administrator determines the exercise price for a nonstatutory stock option.

*Vesting.* Options granted under the plan generally vest in 16 quarterly installments, each quarterly installment being equal in number of shares as possible (as determined by us in our reasonable discretion), with the first quarterly installment vesting one quarter after the date of the grant, and an additional quarterly installment vesting on the first day of each calendar quarter thereafter, until all of the shares subject to the option are fully vested and the option may be exercised as to 100% of the shares issuable upon exercise thereof.

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**Summary compensation table**

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*Changes to Capital Structure.* In the event of certain types of changes in our capital structure, such as a share split, the number of shares and exercise price or strike price, if applicable, of all outstanding awards will be appropriately adjusted.

*Dividends.* Any award under the 2003 Plan may confer upon the recipient the right to receive dividend payments or dividend equivalent payments with respect to the shares subject to the award. Such dividend payments may be paid currently or credited to an account in favor of the recipient. Such dividends may be settled in cash or shares, as determined by the plan administrator.

**2011 EQUITY INCENTIVE PLAN**

We adopted a new equity incentive plan entitled the 2011 Equity Incentive Plan, or the 2011 Plan, on November 7, 2011, which our board of directors voted to amend on December 15, 2011 and January 31, 2012, and which has been approved by our stockholders. The 2011 Plan was adopted for the benefit of employees, consultants and our non-employee directors and our affiliates.

The 2011 Plan provides for the grant of ISOs to employees, and for the grant of nonqualified stock options to purchase shares of common stock, restricted stock, restricted stock units, stock appreciation rights, stock grants, performance units and performance awards to employees, consultants and non-employee directors, for the purposes of encouraging their ownership of common stock and providing additional incentives to promote the success of our business through the grant of awards of or pertaining to the common stock. ISOs are intended to be "incentive stock options," as that term is defined in Section 422 of the Code.

The Employee Retirement Income Security Act of 1974 does not govern the 2011 Plan. In addition, the 2011 Plan does not qualify under Section 401(a) of the Code.

**Securities subject to the 2011 Plan**

Under the terms of the 2011 Plan, the aggregate number of shares of common stock that may be subject to options and other awards is equal to the sum of (1) 3,405,064 shares of common stock and (2) any shares underlying awards outstanding under the 2003 Plan as of November 7, 2011 that, on or after that date, are forfeited or lapse without the issuance of shares. As of June 30, 2012, the maximum number of shares of common stock that may be issued under the 2011 Plan, including ISOs, is 4,740,418. The shares of common stock covered by the 2011 Plan are authorized but unissued shares, treasury shares or common stock purchased on the open market.

To the extent that an award terminates, expires or lapses for any reason or is settled in cash, any shares subject to the award (to the extent of such termination, expiration, lapse or cash settlement) may be used again for new grants under the 2011 Plan. Shares tendered or withheld to satisfy the grant or exercise price or tax withholding obligation pursuant to any award or the exercise price of an option may be used again for new grants under the 2011 Plan.

The maximum number of shares of common stock that may be subject to one or more awards to a participant pursuant to the 2011 Plan during any calendar year is 1,250,000 and the maximum amount that may be paid to a participant in cash during any calendar year with respect to cash-based awards is \$2.0 million. However, these limits will not apply to certain awards granted under the 2011 Plan until the earliest to occur of the first material modification of the 2011 Plan following the date of the closing of the offering, or the Public Trading Date, the issuance of all of the shares reserved for issuance under the 2011 Plan, the expiration of the 2011 Plan or the first meeting of our stockholders at which directors are to be elected that occurs after the close of the third calendar year following the calendar year in which the Public Trading Date occurs.

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**Summary compensation table**

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**Administration**

The 2011 Plan provides that the compensation committee of our board of directors, or the compensation committee, currently administers the 2011 Plan, although our board of directors may exercise any powers and responsibilities assigned to the compensation committee at any time.

The compensation committee has the authority to administer and interpret the 2011 Plan, including the power to determine eligibility, the types and sizes of awards, the price, timing and other terms and conditions of awards and the acceleration or waiver of any vesting or forfeiture restriction. The compensation committee may delegate to an executive officer or officers the authority to grant awards to non-officer employees and to consultants, in accordance with any guidelines as the compensation committee may determine.

**Eligibility**

Persons eligible to participate in the 2011 Plan include employees, consultants and our non-employee directors and our affiliates, as determined by the compensation committee. Only our employees and certain of our parent and subsidiary corporations are eligible to receive grants of options intended to qualify as ISOs.

**Stock options**

The 2011 Plan authorizes the grant of stock options, including ISOs and nonqualified stock options. Under the 2011 Plan, the exercise price of ISOs granted pursuant to the 2011 Plan will not be less than the fair market value of the common stock on the date of grant, and the exercise price of nonqualified stock options granted pursuant to the 2011 Plan will be determined by the compensation committee. Stock options are subject to such vesting and exercisability conditions as are determined by the compensation committee and set forth in a written stock option agreement. In no event may an ISO have a term of more than ten years. ISOs granted to any person who owns, as of the date of grant, stock possessing more than 10% of the total combined voting power of all classes of our stock, however, are required to have an exercise price that is not less than 110% of the fair market value of the common stock on the date of grant and may not have a term of more than five years. The aggregate fair market value of the shares with respect to which options intended to be ISOs are exercisable for the first time by an employee in any calendar year may not exceed \$100,000, or such other amount as the Code provides without being treated as a nonqualified stock option.

**Stock appreciation rights**

A stock appreciation right, or SAR, is the right to receive payment of an amount equal to the excess of the fair market value of a share of common stock on the date of exercise of the SAR over the grant price of the SAR. The grant price of each SAR granted under the 2011 Plan will be no less than the fair market value of a share of common stock on the date of grant of the SAR. The compensation committee is authorized to issue SARs in such amounts and on such terms and conditions as it may determine, consistent with the terms of the 2011 Plan.

**Restricted stock**

Restricted stock is the grant of shares of common stock at a price, if any, determined by the compensation committee, which shares are nontransferable and may be subject to forfeiture until specified vesting conditions are met. Restricted stock will be evidenced by a written agreement. During the period of restriction, restricted stock is subject to restrictions and vesting requirements, as provided

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**Summary compensation table**

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by the compensation committee. The restrictions may lapse in accordance with a schedule or other conditions determined by the compensation committee.

**Restricted stock units**

A restricted stock unit provides for the issuance of a share of common stock at a future date upon the satisfaction of specific conditions set forth in the applicable award agreement. The compensation committee will specify, or permit the restricted stock unit holder to elect, the conditions and dates upon which payments under the restricted stock units will be made, which dates may not be earlier than the date as of which the restricted stock units vest and which conditions and dates will be subject to compliance with Section 409A of the Code. On the distribution dates, we will transfer to the participant one unrestricted, fully transferable share of the common stock (or the fair market value of one such share of common stock in cash) for each restricted stock unit scheduled to be paid out on such date and not previously forfeited.

**Performance units**

Performance units represent the participant's right to receive an amount, based on the value of the common stock, if performance goals established by the compensation committee are achieved. The compensation committee will determine the applicable performance period, the performance goals and such other conditions that apply to the performance unit.

**Performance awards**

A performance award is cash bonus award, stock bonus award, performance award or incentive award that is paid in cash, shares of common stock or a combination of both, as determined by the compensation committee. The compensation committee will determine the applicable performance period, the performance goals and such other conditions that apply to the performance award.

**Stock grants**

A stock grant is a grant in the form of shares of common stock. The number or value of shares of any stock grant will be determined by the compensation committee.

**Qualified performance-based awards**

Any award under the 2011 Plan, other than a stock grant, may be issued as a qualified performance-based award that is earned based on the attainment of performance criteria. The compensation committee may grant qualified performance-based awards to employees who are or may be "covered employees," as defined in Section 162(m) of the Code, that are intended to be performance-based compensation within the meaning of Section 162(m) of the Code in order to preserve the deductibility of these awards for federal income tax purposes. The qualified performance-based awards may be linked to any one or more of the performance criteria set forth in the 2011 Plan or other specific criteria determined by the compensation committee.

**Dividends, dividend equivalents**

The 2011 Plan authorizes the compensation committee to provide a participant with the right to receive dividends or dividend equivalents with respect to shares of common stock covered by an award granted under the 2011 Plan. Dividends and dividend equivalents may be settled in cash or shares of common stock, as determined by the compensation committee.

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**Summary compensation table**

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**Payment methods**

The compensation committee determines the methods by which payments by any option granted under the 2011 Plan may be paid, including, without limitation, by:

- > cash or check;
- > placing a market sell order with a broker with respect to shares of common stock then-issuable upon exercise or vesting of an award, and directing the broker to pay a sufficient portion of the net proceeds of the sale to us in satisfaction of the aggregate payments required (provided that payment of such proceeds is then made to us upon settlement of such sale);
- > shares of common stock issuable pursuant to the award or previously held; or
- > such other legal consideration deemed acceptable by the compensation committee.

**Forfeiture of unvested awards; leave of absence**

Upon the termination of service of the holder of an option or unless otherwise provided by the compensation committee, the award generally will expire on a date not later than three months after the termination of service. Except as otherwise determined by the compensation committee, in the event that the employment or services of the holder of an award is terminated, the unvested portion of the award will generally be forfeited or may be subject to repurchase by us, and will cease to vest or become exercisable after the termination.

The compensation committee may provide that an award will continue to vest for some or all of the period of a leave of absence, or that vesting of an award will be tolled during a leave of absence, consistent with applicable law.

**Transferability**

Generally, awards under the 2011 Plan may only be transferred by will or the laws of descent and distribution, unless and until such award has been exercised or the shares underlying such award have been issued and all restrictions applicable to such shares have lapsed. However, subject to certain terms and conditions, the compensation committee may permit a holder to transfer a nonqualified stock option or shares of restricted stock to any "family member" under applicable securities laws.

**Adjustments; corporate transactions**

In the event of a declaration of a stock dividend, stock split, reverse stock split, recapitalization, reclassification, reorganization or similar occurrence, the compensation committee will make appropriate adjustments to:

- > the number and kind of shares available for future grants;
- > the number and kind of shares covered by each outstanding award;
- > the grant or exercise price under each outstanding award; and
- > the repurchase right of each share of restricted stock.

In the event that such a corporate action occurs that is not included in the list of actions covered in the immediately preceding sentence, the compensation committee may equitably adjust any outstanding awards under the 2011 Plan in such manner as it may deem equitable and

appropriate.

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**Summary compensation table**

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In the event of a merger or consolidation, the sale or exchange of all common stock, the sale, transfer or disposition of all or substantially all of our assets or our liquidation or dissolution, the compensation committee may take one or more of the following actions with respect to outstanding options and SARs:

- > provide for the assumption or substitution of the awards;
- > cancel the awards;
- > accelerate the awards in whole or in part;
- > cash out the awards;
- > convert the awards into the right to receive liquidation proceeds; or
- > any combination of the above.

Upon our liquidation or dissolution, except as otherwise provided in an applicable award agreement, all forfeiture restrictions and/or performance goals with respect to an award will automatically be deemed terminated or satisfied, as applicable.

In the event of a "change of control" (as defined in the 2011 Plan), our compensation committee will take any action it deems necessary or appropriate, including to accelerate an award in whole or in part. A SAR granted in tandem with a stock option that can only be exercised during limited periods following a change of control of us may entitle the holder to receive an amount based on the highest price paid or offered for the common stock in a transaction relating to the change of control or paid during the thirty-day period immediately preceding the change of control.

**Termination or amendment**

Our board of directors may terminate, amend or modify the 2011 Plan at any time. However, stockholder approval of an amendment is required to increase the aggregate share limit, change the description of eligible participants or to the extent necessary to comply with applicable law.

The term of the 2011 Plan will expire on, and no ISO may be granted pursuant to the 2011 Plan on or after, November 7, 2021.

**Tax withholding**

We may require participants to discharge applicable withholding tax obligations with respect to any award granted to the participant. The plan administrator may in its discretion allow a holder to meet any such withholding tax obligations by electing to have us withhold shares of common stock otherwise issuable under any award (or allow the return of shares of common stock) having a fair market value equal to the sums required to be withheld.

**RISK ASSESSMENT IN COMPENSATION PROGRAMS**

We have assessed our compensation programs and concluded that our compensation practices do not create risks that are reasonably likely to have a material adverse effect on us.

**DISCLOSURE OF COMMISSION POSITION ON INDEMNIFICATION FOR SECURITIES ACT LIABILITIES**

Our amended and restated bylaws provide for the indemnification of officers, directors and third parties acting on our behalf if such persons act in good faith and in a manner reasonably believed to



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**Summary compensation table**

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be in and not opposed to our best interest, and, with respect to any criminal action or proceeding, such indemnified party had no reason to believe his or her conduct was unlawful.

To the extent that indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling our company pursuant to the foregoing provisions, we have been informed that, in the opinion of the SEC, such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable. If a claim for indemnification against such liabilities (other than the payment by us of expenses incurred or paid by a director, officer or controlling person of our company in the successful defense of any action, suit or proceeding) is asserted by any of our directors, officers or controlling persons in connection with the securities being registered, we will, unless in the opinion of our counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by us is against public policy as expressed in the Securities Act and will be governed by the final adjudication of that issue.

## Certain relationships and related transactions

### **TRANSACTIONS WITH RELATED PERSONS**

Since January 1, 2009, we have engaged in the following transactions with our directors, executive officers and holders of more than five percent of our voting securities, and affiliates or immediate family members of our directors, executive officers and holders of more than five percent of our voting securities. We believe that all of these transactions were on terms as favorable as could have been obtained from unrelated third parties.

#### **Reporting and overhead**

From October 2010 until the closing of the Merger, the Former Operating Company funded our ongoing Exchange Act filing requirements and other costs associated with investigating and analyzing an acquisition. Management estimates such amounts to be de minimis. We have used the office space and equipment of MPM Asset Management LLC, our sole stockholder prior to the redemption completed in connection with the Merger, and those of the Former Operating Company from time to time, in all cases, at no cost to us.

#### **Transactions with former operating company related persons**

As described above, Dr. Lyttle, a former director and current Chairman of our Scientific Advisory Board, was the President and Chief Executive Officer of the Former Operating Company prior to the Merger, and each of Dr. Lyttle and Mr. Auerbach, Dr. Gadick and Mr. Fleming, each current directors, served as directors of the Former Operating Company prior to the Merger. In addition, certain investment funds affiliated with MPM Asset Management LLC (our sole stockholder prior to the Merger), including MPM BioVentures III Fund, were investors in the Former Operating Company prior to the Merger. Dr. Gadick, the Managing Director of MPM Capital was a control person of ours prior to the Merger and affiliated with major stockholders of the Former Operating Company prior to the Merger. The shares held by MPM Asset Management LLC were repurchased by us for an aggregate purchase price of \$50,000 plus reimbursement of certain costs for prior audit and legal fees, SEC filing fees, taxes and postage in the aggregate amount of \$110,725 contemporaneously with the closing of the Merger.

#### **Series A-1 preferred stock financing**

On May 11, 2011, certain accredited investors in a series A-1 convertible preferred stock financing entered into an irrevocable legally binding commitment to purchase \$64.3 million of series A-1 preferred stock in three closings. The first closing occurred on May 17, 2011 and resulted in gross proceeds of approximately \$21.4 million through the sale of 2,631,845 shares of the Former Operating Company's series A-1 preferred stock. Those shares were exchanged in the Merger for an aggregate of 263,177 shares of our series A-1 preferred stock. The second closing occurred on November 18, 2011 and we received gross proceeds of approximately \$21.4 million through the sale of 263,178 shares of our series A-1 preferred stock. The third closing occurred on December 14, 2011 and we received gross proceeds of approximately \$21.4 million through the sale of 263,180 shares of series A-1 preferred stock. Each share of our series A-1 preferred stock is convertible into 10 shares of our common stock.

Table of Contents**Certain relationships and related transactions**

The following table sets forth the number of shares of our series A-1 preferred stock that we issued at the three closings:

Name(1)	Shares of series A-1 preferred stock
Entities affiliated with MPM Capital <sup>(2)</sup>	384,261
The Wellcome Trust	76,566
HealthCare Ventures VII	58,953
Entities affiliated with Saints Capital <sup>(3)</sup>	49,127
BB Biotech Ventures II	84,536
Scottish Widows (Healthcare Private Equity)	20,416
Raymond F. Schinazi	1,487
David E. Thompson Revocable Trust	588
H.Watt Gregory, III	397
The Richman Trust	195
Breining Family Trust	120
Brookside	122,820
Biotech Growth N.V.	122,820
Ipsen	17,326
<b>Total</b>	<b>939,612</b>

(1) See "Security ownership of certain beneficial owners and management" for more information about shares held by these entities.

(2) Consists of 15,096 shares issued to MPM BioVentures III, L.P., 224,528 shares issued to MPM BioVentures III-QP, L.P., 18,975 shares of our series A-1 preferred stock issued to MPM BioVentures III GmbH & Co. Beteiligungs K.G., 6,779 shares issued to MPM BioVentures III Parallel Fund, L.P., 4,346 shares issued to MPM Asset Management Investors 2003 BVIII LLC and 114,537 shares issued to MPM Bio IV NVS Strategic Fund, L.P.

(3) Consists of 48,641 shares issued to OBP IV Holdings LLC and 486 mRNA II Holdings LLC.

**Series A-5 preferred stock issuance**

Concurrently with the first closing of the series A-1 financing, the Former Operating Company issued 64,430 shares of series A-5 preferred stock to Nordic for gross proceeds of approximately \$0.5 million. These shares were exchanged in the Merger for 6,443 shares of our series A-5 convertible preferred stock.

**Surviving provisions of our stockholders' agreement**

We entered into the Stockholders' Agreement in May 2011 and amended and restated such agreement in February 2012.

*Registration rights.* The Stockholders' Agreement provides our stockholders with certain resale, demand and piggyback registration rights as described under "Description of capital stock Registration Rights Pursuant to our Stockholders' Agreement."

*Indemnification in connection with registration rights.* The Stockholders' Agreement contains customary cross-indemnification provisions, pursuant to which we are obligated to indemnify the selling stockholders in the event of material misstatements or omissions in a registration statement attributable to us, and the selling stockholders are obligated to indemnify us for material misstatements or omissions attributable to them.

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**Certain relationships and related transactions**

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**Participation in the offering**

Certain of our existing stockholders and their affiliated entities have indicated an interest in purchasing an aggregate of up to approximately \$ \_\_\_\_\_ in shares of our common stock in this offering at the initial public offering price. However, because indications of interest are not binding agreements or commitments to purchase, these stockholders may determine to purchase fewer shares than they indicate an interest in purchasing or not to purchase any shares in this offering. In addition, the underwriters could determine to sell fewer shares to these stockholders than the stockholders indicate an interest in purchasing or not to sell any shares to these stockholders.

**POLICIES AND PROCEDURES FOR RELATED PARTY TRANSACTIONS**

Our board of directors has adopted a written related person transaction policy to set forth the policies and procedures for the review and approval or ratification of related person transactions. This policy covers, with certain exceptions set forth in Item 404 of Regulation S-K under the Securities Act, any transaction, arrangement or relationship, or any series of similar transactions, arrangements or relationships in which we were or are to be a participant, where the amount involved exceeds \$120,000 and a related person had or will have a direct or indirect material interest, including, without limitation, purchases of goods or services by or from the related person or entities in which the related person has a material interest, indebtedness, guarantees of indebtedness and employment by us of a related person.

As provided by our audit committee charter, our audit committee is responsible for reviewing and approving in advance any related party transaction.

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## Security ownership of certain beneficial owners and management

The following table sets forth information regarding beneficial ownership of our common stock as of August 31, 2012 for:

- > each person known by us to be the beneficial owner of more than five percent of the outstanding shares of common stock;
- > each of our directors and named executive officers; and
- > all directors and executive officers as a group.

The number of shares beneficially owned by each stockholder is determined under rules issued by the SEC and includes voting or investment power with respect to securities and reflects the termination upon the closing of this offering of the provisions of the stockholders' agreement among us and our stockholders relating to the ownership, disposition and voting of our stock. Under these rules, beneficial ownership includes any shares as to which the individual or entity has sole or shared voting power or investment power. Unless otherwise stated in the table or its footnotes, the person and entities listed below have the sole voting power and investment power with respect to the shares set forth next to their name. The "Percentage of common stock beneficially owned before offering" column is based on 21,618,431 shares of common stock outstanding on August 31, 2012, assuming the automatic conversion of all outstanding shares of our convertible preferred stock as of August 31, 2012 into 20,754,880 shares of our common stock upon the listing of our common stock on the NASDAQ Global Market. Such numbers do not include shares of common stock to be issued upon the consummation of this offering to holders of our series A-1, A-2, A-3 and A-5 convertible preferred stock as payment of accrued but unpaid dividends. Shares of our common stock that may be acquired within 60 days after August 31, 2012 pursuant to exercise of options or warrants are deemed to be outstanding for the purpose of computing the percentage ownership of the holder of such options or warrants but are not deemed to be outstanding for computing the percentage ownership of any other person shown in the table. The "Percentage of common stock beneficially owned after offering" is based on shares of our common stock to be outstanding after this offering, including the shares that we are selling in this offering. Unless otherwise noted, the address of each stockholder below is c/o Radius Health, Inc., 201 Broadway, 6th Floor, Cambridge, MA 02139.

Certain of our existing stockholders and their affiliated entities have indicated an interest in purchasing an aggregate of up to approximately \$ \_\_\_\_\_ in shares of our common stock in this offering at the initial public offering price. However, because indications of interest are not binding agreements or commitments to purchase, these stockholders may determine to purchase fewer shares than they indicate an interest in purchasing or not to purchase any shares in this offering. In addition, the underwriters could determine to sell fewer shares to these stockholders than the stockholders indicate an interest in purchasing or not to sell any shares to these stockholders. The following table does not reflect any potential purchases by these existing principal stockholders or their affiliated entities.

Table of Contents**Security ownership of certain beneficial owners and management**

Name and address	Number of shares beneficially owned	Percentage of common stock beneficially owned	
		Before offering	After offering
<b>5% stockholders:</b>			
Entities affiliated with MPM Capital 200 Clarendon St., 54th Fl. Boston, MA 02116	8,397,070 <sup>(1)</sup>	38.8%	
The Wellcome Trust Limited, as trustee of The Wellcome Trust 215 Euston Road London NW1 2BE England	2,868,910 <sup>(2)</sup>	13.3%	
HealthCare Ventures VII, L.P. 55 Cambridge Parkway Suite 102 Cambridge, MA 02142	2,292,053 <sup>(3)</sup>	10.6%	
BB Biotech Ventures II, L.P. Trafalgar Court Les Banques St. Peter Port Guernsey	1,896,980 <sup>(4)</sup>	8.8%	
Entities affiliated with Saints Capital 475 Sansome Street, Suite 1850 San Francisco, CA 94111	1,856,104 <sup>(5)</sup>	8.6%	
Entities affiliated with Oxford Bioscience Partners 222 Berkley Street, Suite 1650 Boston, MA 02116	1,364,834 <sup>(6)</sup>	6.3%	
Brookside Capital Partners Fund, L.P. c/o Bain Capital, LLC John Hancock Tower 200 Clarendon Street Boston, MA 02116	1,228,200 <sup>(7)</sup>	5.7%	
Biotech Growth N.V. Asset Management BAB N.V. Ara Hill Top Building, Unit A-5 Pletterijweg Oost 1 Curaçao, Dutch Caribbean	1,228,200 <sup>(8)</sup>	5.7%	

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Table of Contents**Security ownership of certain beneficial owners and management**

Name and address	Number of shares beneficially owned	Percentage of common stock beneficially owned	
		Before offering	After offering
<b>Directors and Named Executive Officers:</b>			
Michael S. Wyzga			
C. Richard Lyttle, Ph.D.	642,752 <sup>(9)</sup>	2.9%	
B. Nicholas Harvey	200,860 <sup>(10)</sup>	*	
Louis Brenner, M.D.			
Gary Hattersley, Ph.D.	96,410 <sup>(11)</sup>	*	
Michael Franken, M.D.			
Louis O'Dea	193,087	*	
Ansbert K. Gadicke, M.D.	8,397,070 <sup>(1)</sup>	38.8%	
Alan H. Auerbach	171,111 <sup>(12)</sup>	*	
Jonathan J. Fleming	1,364,834 <sup>(6)</sup>	6.3%	
Kurt C. Graves	106,946 <sup>(13)</sup>	*	
Martin Münchbach, Ph.D.	1,896,980 <sup>(4)</sup>	8.8%	
Elizabeth Stoner, M.D.	25,000 <sup>(14)</sup>	*	
All directors and executive officers as a group (13 individuals)	13,095,050	57.5%	

\*

*Represents beneficial ownership of less than one percent of our common stock.*

(1)

*Includes 302,750 shares of common stock beneficially owned by MPM BioVentures III, L.P., or BV III, 4,502,870 shares of common stock beneficially owned by MPM BioVentures III-QP, L.P., or BV III QP, 380,540 shares of common stock beneficially owned by MPM BioVentures III GmbH & Co. Beteiligungs K.G., or BV III KG, 135,960 shares of common stock beneficially owned by MPM BioVentures III Parallel Fund, L.P., or BV III PF, 87,160 shares of common stock beneficially owned by MPM Asset Management Investors 2003 BVIII LLC, or AM LLC, and 2,987,790 shares of common stock beneficially owned by MPM Bio IV NVS Strategic Fund, L.P., or MPM NVS. MPM BioVentures III GP, L.P., or BV III LP, and MPM BioVentures III LLC, or BV3LLC, are the direct and indirect general partners of BV III, BV III QP, BV III KG and BV III PF. MPM BioVentures IV GP LLC, or BV IV GP, and MPM BioVentures IV LLC, or BV4LLC, are the direct and indirect general partners of MPM NVS. BV3LLC is the General Partner of BV III LP. Ansbert Gadicke, Luke Evnin, Nicholas Galakatos, Michael Steinmetz, Dennis Henner, Nicholas Simon and Kurt Wheeler are the Members of BV3LLC and the managers of AM LLC. All members of BV3LLC share all power to vote, acquire, hold and dispose of all shares. Each member disclaims beneficial ownership of the securities except to the extent of their pecuniary interest therein. BV4LLC is the Managing Member of BV IV GP. Ansbert Gadicke, Luke Evnin, Todd Foley, John Vander Vort, James Paul Scopa, Vaughn M. Kailian and Steven St. Peter are the Members of MPM BioVentures IV LLC. All members share all power to vote, acquire, hold and dispose of all shares and warrants. Each member disclaims beneficial ownership of the securities except to the extent of their pecuniary interest therein. Each entity mentioned above and Dr. Gadicke disclaim beneficial ownership of all shares not held by it or him of record.*

(2)

## Edgar Filing: Radius Health, Inc. - Form S-1/A

*Responsibility for the activities of the Wellcome Trust lies with the Board of Governors of The Wellcome Trust Limited, which is comprised of William Castell, Kay Davies, Peter Davies, Christopher Fairburn, Richard Hynes, Anne Johnson, Roderick Kent, Eliza Manningham-Buller, Peter Rigby and Peter Smith. The Board of Governors share all voting and investment power with respect to the shares held by The Wellcome Trust Limited as trustee of the Wellcome Trust.*

(3)

*HealthCare Partners VII, L.P., or HCPVII, is the General Partner of HealthCare Ventures VII, L.P., or HCVVII. The General Partners of HCPVII are James H. Cavanaugh, Ph.D., Harold R. Werner, John W. Littlechild, Christopher*

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**Security ownership of certain beneficial owners and management**

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*Mirabelli, Ph.D., and Augustine Lawlor. The General Partners of HCPVII share all voting and investment power on behalf of HCPVII.*

- (4) *BB Biotech Ventures GP (Guernsey) Limited, or BBBV Limited, is the General Partner of BB Biotech Ventures II L.P., or BBBV LP. Jan Bootsma, Pascal Mahieux, and Ben Morgan are the directors of BBB Limited and share all investment and voting power with respect to these shares. Additionally, Martin Münchbach, the Senior Investment Advisor Private Equity at Bellevue Asset Management AG, advises Asset Management BAB N.V., or AMB NV, who, pursuant to a services agreement with BAM AG, advises the directors of BBBV Limited, may be deemed to have voting and investment control over the shares held by BBBV LP given such advisory role. Each of the foregoing, except BBBV LP, disclaims beneficial ownership of the securities except to the extent of their pecuniary interest therein, if any.*
- (5) *Includes 1,837,693 shares of common stock beneficially owned by OBP IV Holdings LLC, or OBP IV, and 18,411 shares of common stock beneficially owned by mRNA II Holdings LLC, or mRNA II. The securities held by OBP IV are indirectly held by Saints Capital Granite, L.P., or Saints LP, a member of OBP IV, and Saints Capital Granite, LLC, or Saints LLC, the sole general partner of Saints LP. The individual managers of Saints LLC, Scott Halsted, David P. Quinlivan and Kenneth B. Sawyer, share voting and investment power on behalf of Saints LLC. The shares held by mRNA II are indirectly held by mRNA Fund II L.P., or mRNA LP, a member of mRNA II. Additionally, other than with respect to 486,410 shares of common stock beneficially owned by OBP IV and 4,860 shares of common stock beneficially owned by mRNA II, the securities are indirectly held by Oxford Bioscience Partners IV L.P., or OBP LP, a member of OBP IV. OBP Management IV L.P., or OBP Management IV, is the sole general partner of each of OBP LP and mRNA LP. Jonathan Fleming and Alan Walton, the individual general partners of OBP Management IV, share all voting and investment power on behalf of OBP Management IV. Each of the foregoing disclaims beneficial ownership of the securities except to the extent of their pecuniary interest therein, if any.*
- (6) *Includes 1,351,283 shares of common stock beneficially owned by OBP IV and 13,551 shares of common stock beneficially owned by mRNA II. The securities are indirectly held by OBP Management IV, the sole general partner of each of OBP LP and mRNA LP. OBP LP is a member of OBP IV, mRNA LP is a member of mRNA II and Saints LP is a member of OBP IV and mRNA II. Jonathan Fleming and Alan Walton are the individual general partners of OBP Management IV and share all voting and investment power on behalf of OBP Management IV. Saints LLC is the sole general partner of Saints LP, and Scott Halsted, David P. Quinlivan, and Kenneth B. Sawyer, the individual managers of Saints LLC, share all voting and investment power on behalf of Saints LLC. Each of the foregoing disclaims beneficial ownership of the securities except to the extent of their pecuniary interest therein, if any.*
- (7) *Brookside Capital Investors, L.P., or Brookside Investors, is the sole general partner of Brookside Capital Partners Fund, L.P., or Partners Fund. Brookside Capital Management, LLC is the sole general partner of Brookside Investors. The control persons of Brookside Capital Management are Executive Committee members Dewey J. Awad, Domenic J. Ferrante, Matthew V. McPherron, William E. Pappendick IV and John M. Toussaint. The Executive Committee members share all voting and investment power on behalf of Brookside Capital Management, LLC.*
- (8) *Biotech Growth N.V., or Biotech Growth, is a wholly-owned subsidiary of BB Biotech AG, or BB Biotech. The directors and executive officers of BB Biotech are Dr. Thomas D. Szucs, Chairman and Director, Dr. Clive Meanwell, Vice Chairman and Director, and Dr. Erich Hunziker, Director. The directors and executive officers of Biotech Growth are Dr. Thomas D. Szucs, Statutory Director; Deanna Chemaly, Statutory Director; and Hugo Jan van Neutegem, Statutory Director.*
- (9) *Includes 576,086 options to purchase our common stock anticipated to be exercisable within 60 days after August 31, 2012, held by The Cecil Richard Lyttle 2012 Grantor Retained Annuity Trust. C. Richard Lyttle is a trustee of The Cecil Richard Lyttle 2012 Grantor Retained Annuity Trust and shares all voting and investment power with respect to the securities held in the name of the trust.*
- (10) *Includes 170,860 options to purchase our common stock anticipated to be exercisable within 60 days after August 31, 2012.*
- (11) *Consists of 96,410 options to purchase our common stock anticipated to be exercisable within 60 days after August 31, 2012.*
- (12) *Consists of 171,111 options to purchase our common stock anticipated to be exercisable within 60 days after August 31, 2012.*
- (13) *Consists of 106,946 options to purchase our common stock anticipated to be exercisable within 60 days after August 31, 2012.*
- (14) *Consists of 25,000 options to purchase our common stock anticipated to be exercisable within 60 days after August 31, 2012.*



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## Description of capital stock

The following description of our capital stock and provisions of our restated certificate of incorporation, amended and restated bylaws and stockholders' agreement are summaries and are qualified by reference to the restated certificate of incorporation and amended and restated bylaws that will become effective upon the listing of our common stock on the NASDAQ Global Market and the stockholders' agreement. We have filed copies of these documents with the SEC as exhibits to our registration statement of which this prospectus forms a part. The description of our capital stock reflects changes to our capital structure that will occur upon the listing of our common stock on the NASDAQ Global Market. Currently, there is no established public trading market for our common stock.

### GENERAL

Upon the listing of our common stock on the National Global Market, we will have authorized under our restated certificate of incorporation 100,000,000 shares of common stock, \$.0001 par value per share, and 10,000,000 shares of preferred stock, \$.0001 par value per share, all of which preferred stock will be undesignated.

As of June 30, 2012, there were outstanding:

- > 855,116 shares of our common stock held by 42 stockholders of record; and
- > 2,075,488 shares of our series A-1, A-2, A-3, A-4 and A-5 convertible preferred stock that will automatically convert into 20,754,880 shares of our common stock upon the listing of our common stock on the NASDAQ Global Market.

### COMMON STOCK

#### Voting rights

Each holder of our common stock is entitled to one vote for each share on all matters submitted to a vote of the stockholders, including the election of directors. Our stockholders do not have cumulative voting rights in the election of directors. Accordingly, the holders of a majority of the voting shares are able to elect all of the directors.

#### Dividends

Subject to preferences that may be applicable to any then outstanding preferred stock, holders of our common stock are entitled to receive dividends, if any, as may be declared from time to time by our board of directors out of legally available funds.

#### Liquidation

In the event of our liquidation, dissolution or winding up, holders of our common stock will be entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of our debts and other liabilities and the satisfaction of any liquidation preference granted to the holders of any then outstanding shares of preferred stock.

#### Rights and preferences

Holders of our common stock have no preemptive, conversion, subscription or other rights, and there are no redemption or sinking fund provisions applicable to our common stock. The rights, preferences

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**Description of capital stock**

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and privileges of the holders of our common stock are subject to and may be adversely affected by the rights of the holders of shares of any series of preferred stock that we may designate in the future.

**PREFERRED STOCK**

Upon the listing of our common stock on the NASDAQ Global Market, our board of directors will have the authority, without further action by our stockholders, to issue up to 10,000,000 shares of preferred stock in one or more series and to fix the rights, preferences, privileges and restrictions thereof. These rights, preferences and privileges could include dividend rights, conversion rights, voting rights, terms of redemption, liquidation preferences, sinking fund terms and the number of shares constituting any series or the designation of such series, any or all of which may be greater than the rights of common stock. The issuance of our preferred stock could adversely affect the voting power of holders of common stock and the likelihood that such holders will receive dividend payments and payments upon liquidation. In addition, the issuance of preferred stock could have the effect of delaying, deferring or preventing a change of control of our company or other corporate action. Upon the listing of our common stock on the NASDAQ Global Market, no shares of preferred stock will be outstanding, and we have no present plan to issue any shares of preferred stock.

**OPTIONS**

As of June 30, 2012, we had outstanding options to purchase an aggregate of 3,937,386 shares of common stock with a weighted average exercise price of \$3.10 per share.

**WARRANTS**

As of June 30, 2012, we had outstanding warrants to purchase an aggregate of 147,606 shares of common stock at a weighted average exercise price of \$8.15.

**REGISTRATION RIGHTS PURSUANT TO OUR STOCKHOLDERS' AGREEMENT**

**Resale registration rights**

Pursuant to the terms of the Stockholders' Agreement, on or before the 60th calendar day following the closing of the Merger, we were required to file a resale shelf registration statement, or the Resale Registration Statement, pursuant to Rule 415 of the Securities Act, covering the offering and resale of all shares of common stock issued or issuable upon the conversion or exchange of the preferred stock, or the Registrable Securities. As a result of comments received from the SEC after the initial filing of the Resale Registration Statement on June 23, 2011 requiring us to limit the number of shares included in the Resale Registration Statement to approximately one-third of the total number of Registrable Securities, the Resale Registration Statement that was declared effective on November 10, 2011 only registered approximately one-third of the total number of Registrable Securities. Because we were unable to include all of the Registrable Securities in the Resale Registration Statement, we are required to use our reasonable best efforts to file and cause to be declared effective additional registration statements, in order to uphold our obligations under the Stockholders' Agreement to register all Registrable Securities, as promptly as practicable. We are also required to use reasonable best efforts to keep the Resale Registration Statement, and any other registration statement subsequently declared effective that covers the remaining Registrable Securities, continuously effective until all Registrable Shares have been sold or may be sold without volume limitations under Rule 144 promulgated under the Securities Act. In the event that any of these provisions are not complied with, on any date on which such non-compliance first occurs (each an Event Date) and on each monthly anniversary of each such Event Date until such non-compliance event is cured, we are required to pay

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**Description of capital stock**

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to each holder of Registrable Securities an amount in cash equal to one percent of the aggregate purchase price paid by such holder pursuant to the Series A-1 preferred stock purchase agreement, or the Purchase Agreement, for any Registrable Securities then held by such holder. The maximum aggregate liquidated damages payable to any such holder under the Stockholders' Agreement is 16% of the aggregate purchase price paid by such holder pursuant to the Purchase Agreement. Interest accrues at an annual rate of 10% on any unpaid liquidated damages.

**Demand registration rights**

At such time as the Resale Registration Statement is no longer effective, subject to specified exceptions, any party to the Stockholders' Agreement has the right to demand that we file an unlimited number of registration statements on Form S-3 covering the offering and sale of all or at least \$1.0 million worth of its Registrable Securities.

**Piggyback registration rights**

All parties to the Stockholders' Agreement have piggyback registration rights. Under these provisions, if we register any securities for public sale, other than pursuant to a registration statement on Form S-4 or Form S-8, these stockholders will have the right to include their shares in the registration statement, subject to customary exceptions. The underwriters of any underwritten offering will have the right to limit the number of shares having registration rights to be included in the registration statement.

We are responsible for paying all registration expenses, other than underwriting discounts and commissions, related to any demand or piggyback registration. The registration rights provisions in the Stockholders' Agreement contain customary cross-indemnification provisions, pursuant to which we are obligated to indemnify the selling stockholders in the event of material misstatements or omissions in the registration statement attributable to us, and they are obligated to indemnify us for material misstatements or omissions in the registration statement attributable to them. With respect to each holder of Registrable Shares, resale registration rights, demand registration rights and piggyback registration rights automatically terminate for that holder on July 18, 2015.

**ANTI-TAKEOVER PROVISIONS**

**Certificate of incorporation and bylaws to be in effect upon listing of our common stock on the NASDAQ Global Market**

Our restated certificate of incorporation to be in effect upon listing of our common stock on the NASDAQ Global Market will provide for our board of directors to be divided into three classes, with staggered three-year terms. Only one class of directors will be elected at each annual meeting of our stockholders, with the other classes continuing for the remainder of their respective three-year terms. Because our stockholders do not have cumulative voting rights, our stockholders holding a majority of the shares of common stock outstanding will be able to elect all of our directors. Our restated certificate of incorporation and amended and restated bylaws to be effective upon the listing of our common stock on the NASDAQ Global Market will provide that all stockholder action must be effected at a duly called meeting of stockholders and not by a consent in writing, and that only our board of directors, chairman of the board, chief executive officer or president (in the absence of a chief executive officer) may call a special meeting of stockholders.

Our restated certificate of incorporation will require a two-thirds stockholder vote for the amendment, repeal or modification of certain provisions of our restated certificate of incorporation and amended and restated bylaws relating to the classification of our board of directors, the requirement that

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**Description of capital stock**

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stockholder actions be effected at a duly called meeting, and the designated parties entitled to call a special meeting of the stockholders. The combination of the classification of our board of directors, the lack of cumulative voting and the two-thirds stockholder voting requirements will make it more difficult for our existing stockholders to replace our board of directors as well as for another party to obtain control of us by replacing our board of directors. Because our board of directors has the power to retain and discharge our officers, these provisions could also make it more difficult for existing stockholders or another party to effect a change in management. In addition, the authorization of undesignated preferred stock makes it possible for our board of directors to issue preferred stock with voting or other rights or preferences that could impede the success of any attempt to change our control.

These provisions may have the effect of deterring hostile takeovers or delaying changes in our control or management. These provisions are intended to enhance the likelihood of continued stability in the composition of our board of directors and its policies and to discourage certain types of transactions that may involve an actual or threatened acquisition of us. These provisions are designed to reduce our vulnerability to an unsolicited acquisition proposal. The provisions also are intended to discourage certain tactics that may be used in proxy fights. However, such provisions could have the effect of discouraging others from making tender offers for our shares and, as a consequence, they also may inhibit fluctuations in the market price of our shares that could result from actual or rumored takeover attempts. Such provisions may also have the effect of preventing changes in our management.

**Section 203 of the DGCL**

We are subject to Section 203 of the DGCL, which prohibits a Delaware corporation from engaging in any business combination with any interested stockholder for a period of three years after the date that such stockholder became an interested stockholder, with the following exceptions:

- > if, before such date, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested holder;
- > if, upon completion of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction began, excluding for purposes of determining the voting stock outstanding (but not the outstanding voting stock owned by the interested stockholder) those shares owned (i) by persons who are directors and also officers and (ii) employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- > if, on or after such date, the business combination is approved by the board of directors and authorized at an annual or special meeting of the stockholders, and not by written consent, by the affirmative vote of at least two-thirds of the outstanding voting stock that is not owned by the interested stockholder.

In general, Section 203 defines business combination to include the following:

- > any merger or consolidation involving the corporation and the interested stockholder;
- > any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder;
- > subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;

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**Description of capital stock**

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- > any transaction involving the corporation that has the effect of increasing the proportionate share of the stock or any class or series of the corporation beneficially owned by the interested stockholder; or
  
- > the receipt by the interested stockholder of the benefit of any loss, advances, guarantees, pledges or other financial benefits by or through the corporation.

In general, Section 203 defines an "interested stockholder" as an entity or person who, together with the person's affiliates and associates, beneficially owns, or is an affiliate or associate of the corporation and within three years prior to the time of determination of interested stockholder status did own, 15% or more of the outstanding voting stock of the corporation.

**EXCHANGE LISTING**

After the pricing of this offering, we expect that our common stock will be listed on the NASDAQ Global Market under the symbol "RDUS."

**TRANSFER AGENT AND REGISTRAR**

The transfer agent and registrar for our common stock is Wells Fargo Bank, N.A.

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## Shares eligible for future sale

Prior to this offering, there has been no public market for our common stock, and a liquid trading market for our common stock may not develop or be sustained after this offering. Future sales of substantial amounts of our common stock in the public market, including shares issued upon exercise of outstanding options and warrants or in the public market after this offering, or the anticipation of these sales, could adversely affect market prices prevailing from time to time and could impair our ability to raise capital through sales of equity securities.

Upon the closing of this offering, we will have outstanding an aggregate of \_\_\_\_\_ shares of our common stock, after giving effect to the issuance of \_\_\_\_\_ shares of our common stock in this offering and the automatic conversion of all outstanding shares of our preferred stock, including accrued but unpaid dividends, into an aggregate of \_\_\_\_\_ shares of our common stock and assuming no exercise by the underwriters of their over-allotment option, no exercise of options outstanding as of June 30, 2012, no exercise of the warrants outstanding as of June 30, 2012 and no issuance of the dividends payable to Nordic.

Of the shares to be outstanding immediately after the closing of this offering, we expect that the \_\_\_\_\_ shares to be sold in this offering will be freely tradable without restriction under the Securities Act unless purchased by our "affiliates," as that term is defined in Rule 144 under the Securities Act. A total of up to 5,320,600 of our currently outstanding shares that were issued in connection with the Merger and series A-1 financing have been registered under the Securities Act and are freely tradable. The remaining 16,297,831 shares of our common stock outstanding after this offering will be "restricted securities" under Rule 144 (based on 21,618,431 shares of common stock outstanding on August 31, 2012, assuming the automatic conversion of all outstanding shares of our convertible preferred stock as of August 31, 2012 into 20,754,880 shares of our common stock). We expect that substantially all of these securities will be subject to the 180-day lock-up period under the lock-up agreements as described below. The restricted securities may be sold in the public market only if registered or pursuant to an exemption from registration, such as Rule 144 or Rule 701 under the Securities Act.

### **RULE 144**

Under Rule 144, persons who became the beneficial owner of shares of our common stock prior to the completion of this offering may not sell their shares prior to the earlier of (1) the expiration of a six-month holding period, if we have filed all required reports under the Exchange Act for at least 90 days prior to the date of the sale or (2) a one-year holding period, in each case, following such persons' acquisition of such shares.

At the expiration of the six-month holding period described above, a person who was not one of our affiliates at any time during the three months preceding a sale would be entitled to sell an unlimited number of shares of our common stock provided current public information about us is available, and a person who was one of our affiliates at any time during the three months preceding a sale would be entitled to sell within any three-month period only a number of shares of common stock that does not exceed the greater of either of the following:

- > one percent of the number of shares of our common stock then outstanding, which will equal approximately \_\_\_\_\_ shares immediately after this offering; and
- > the average weekly trading volume of our common stock on The NASDAQ Global Market during the four calendar weeks preceding the filing of a Notice of Proposed Sale of Securities Pursuant to Rule 144 with respect to the sale.

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**Shares eligible for future sale**

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Sales under Rule 144 by our affiliates are also subject to manner of sale provisions and notice requirements and to the availability of current public information about us.

Upon expiration of the 180-day lock-up period described below, approximately \_\_\_\_\_ shares of our common stock will be eligible for sale under Rule 144, including shares eligible for resale immediately upon the closing of this offering as described above. We cannot estimate the number of shares of our common stock that our existing stockholders will elect to sell under Rule 144.

**RULE 701**

In general, under Rule 701 of the Securities Act, any of our employees, consultants or advisors, other than our affiliates, who purchased shares from us in connection with a qualified compensatory stock plan or other written agreement is eligible to resell these shares in reliance on Rule 144, but without compliance with the holding period requirements of Rule 144 and without regard to the volume of such sales or the availability of public information about us. Subject to the 180-day lock-up period described below, approximately 1,679,334 shares of our common stock will be eligible for sale in accordance with Rule 701 as of August 31, 2012.

**LOCK-UP AGREEMENTS**

We, each of our directors and executive officers and holders of substantially all of our outstanding shares of common stock have agreed that, without the prior written consent of UBS Securities LLC and Leerink Swann LLC on behalf of the underwriters, we and they will not, subject to limited exceptions, during the period ending 180 days after the date of this prospectus, subject to extension in specified circumstances:

- > sell, offer to sell, contract or agree to sell, hypothecate, pledge, grant any option to purchase or otherwise dispose of or agree to dispose of, directly or indirectly, any shares of our common stock or any securities convertible into or exchangeable or exercisable for shares of our common stock, or publicly announce an intention to do the same;
- > establish or increase a put equivalent position or liquidate or decrease a call equivalent position with respect to any shares of our common stock or any securities convertible into or exchangeable or exercisable for shares of our common stock, or publicly announce an intention to do the same;
- > enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of our common stock or any securities convertible into or exchangeable or exercisable for shares of our common stock, whether such transaction is to be settled by delivery of shares of our common stock or such other securities, in cash or otherwise, or publicly announce an intention to do the same; or
- > file (or participate in the filing of) a registration statement in respect of any shares of our common stock or any securities convertible into or exchangeable or exercisable for shares of our common stock, or publicly announce an intention to do the same.

The lock-up restrictions, specified exceptions and the circumstances under which either the 180-day lock-up period may be extended are described in more detail under "Underwriting."

**REGISTRATION RIGHTS PURSUANT TO OUR STOCKHOLDERS' AGREEMENT**

Subject to the lock-up agreements described above, upon the closing of this offering, the holders of an aggregate of up to 20,902,486 shares of our common stock, including shares of our common stock issuable upon exercise of outstanding warrants, will have the right to require us to maintain the

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**Shares eligible for future sale**

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registration of at least a portion of these shares under the Securities Act under specified circumstances. Currently 5,320,600 shares of this common stock are registered for resale under an effective registration statement. After registration pursuant to these rights, these shares are freely tradable without restriction under the Securities Act. See "Description of capital stock Registration Rights Pursuant to Our Stockholders' Agreement" for additional information regarding these registration rights.

**STOCK OPTIONS**

In the Merger, we assumed the Former Operating Company's 2003 Long-Term Incentive Plan, or the 2003 Plan, and all options to acquire common stock of the Former Operating Company issued thereunder. The 2003 Plan was adopted in November 2003, and was subsequently amended on December 15, 2006, March 28, 2008 and November 14, 2008. As a result of, and upon, the adoption of our 2011 Plan on November 7, 2011, together with the 2003 Plan, the Plans, we ceased making any further awards under the 2003 Plan. Awards outstanding as of November 7, 2011 remained outstanding in accordance with their terms. Following the suspension of the 2003 Plan, any shares subject to awards under the 2003 Plan which terminate, expire, lapse for any reason without the delivery of shares to the holder thereof will instead become available for new grants under the 2011 Plan. Under the 2011 Plan, we are authorized to issue ISOs, non-statutory stock options, rights, incentive stock grants, performance stock grants and restricted stock. Only stock options and non-statutory stock options have been granted under the Plans. As of June 30, 2012, we had 3,937,386 options issued and unexercised under the Plans, 1,103,987 of which are vested as of August 31, 2012. As of June 30, 2012, we had the right to issue additional awards under the 2011 Plan for an aggregate of 803,032 shares of common stock. If an option or right expires or terminates for any reason (other than termination by virtue of the exercise of a related option or related right, as the case may be) without having been fully exercised, if shares of restricted stock are forfeited, or if shares covered by an incentive share award or performance award are not issued or are forfeited, the unissued or forfeited shares that had been subject to the award become available for the grant of additional awards.

We filed a Form S-8 registration statement with the SEC in order to register all the shares available under the 2003 Plan and the 3,597,889 shares initially available under the 2011 Plan. We intend to file another Form S-8 registration statement with the SEC in order to register an additional 1,405,064 shares available under the 2011 Plan as soon as practicable. Shares covered by this registration statement are eligible for sale in the public markets, subject to Rule 144 limitations applicable to affiliates and any lock-up agreements. For a more complete discussion of our stock plans, see "Summary compensation table 2003 Long-Term Incentive Plan" and "Summary compensation table 2011 Equity Incentive Plan."

**WARRANTS**

Upon the closing of this offering, and after giving effect to the automatic conversion of our preferred stock into common stock, we will have outstanding warrants to purchase an aggregate of 147,606 shares of our common stock at a weighted average exercise price of \$8.15 per share held by 4 persons. Any shares of common stock issued upon exercise of such warrants will be restricted securities and may be sold in the public market only if registered or pursuant to an exemption from registration, such as Rule 144, subject to the expiration of the lock-up period described above.

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## Underwriting

We are offering the shares of our common stock described in this prospectus through the underwriters named below. UBS Securities LLC and Leerink Swann LLC are acting as joint book-running managers of this offering and the representatives of the underwriters. We have entered into an underwriting agreement with the representatives on behalf of the underwriters named below. Subject to the terms and conditions of the underwriting agreement, each of the underwriters has severally agreed to purchase the number of shares of common stock listed next to its name in the following table:

Underwriter	Number of shares
UBS Securities LLC	
Leerink Swann LLC	
Cowen and Company, LLC	

Total

The underwriting agreement provides that the underwriters must buy all of the shares if they buy any of them. However, the underwriters are not required to take or pay for the shares covered by the underwriters' over-allotment option described below.

Our common stock is offered subject to a number of conditions, including:

- > receipt and acceptance of our common stock by the underwriters; and
- > the underwriters' right to reject orders in whole or in part.

In connection with this offering, certain of the underwriters or securities dealers may distribute prospectuses electronically.

### OVER-ALLOTMENT OPTION

We have granted the underwriters an option to buy up to an aggregate of \_\_\_\_\_ additional shares of our common stock. The underwriters may exercise this option solely for the purpose of covering over-allotments, if any, made in connection with this offering. The underwriters have 30 days from the date of this prospectus to exercise this option. If the underwriters exercise this option, they will each purchase additional shares approximately in proportion to the amounts specified in the table above.

### COMMISSIONS AND DISCOUNTS

Shares sold by the underwriters to the public will initially be offered at the initial public offering price set forth on the cover of this prospectus. Any shares sold by the underwriters to securities dealers may be sold at a discount of up to \$ \_\_\_\_\_ per share from the public offering price. Sales of shares made outside the United States may be made by affiliates of the underwriters. If all the shares are not sold at the initial public offering price, the representatives may change the offering price and the other selling terms. Upon execution of the underwriting agreement, the underwriters will be obligated to purchase the shares at the prices and upon the terms stated therein.

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The following table shows the per share and total underwriting discounts and commissions we will pay to the underwriters assuming both no exercise and full exercise of the underwriters' option to purchase additional shares of our common stock.

	Paid by us	
	No exercise	Full exercise
Per share	\$	\$
Total	\$	\$

We estimate that the total expenses of this offering payable by us, not including the underwriting discounts and commissions, will be approximately \$ .

**NO SALES OF SIMILAR SECURITIES**

We, our executive officers, directors and the holders of substantially all our common stock have entered into lock-up agreements with the underwriters. Under these agreements, subject to certain exceptions, we and each of these persons may not (i) sell, offer to sell, contract or agree to sell, hypothecate, pledge, grant any option to purchase or otherwise dispose of or agree to dispose of, directly or indirectly, or file (or participate in the filing of) a registration statement with the SEC in respect of, or establish or increase a put equivalent position or liquidate or decrease a call equivalent position within the meaning of Section 16 of the Exchange Act with respect to, any common stock, or any securities convertible into or exchangeable or exercisable for, or any warrants or other rights to purchase, common stock, (ii) enter into any swap or other arrangement that transfers to another, in whole or in part, any of the economic consequences of ownership of such securities, whether any such transaction is to be settled by delivery of common stock or such other securities, in cash or otherwise or (iii) publicly announce an intention to effect any transaction specified in clause (i) or (ii). Subject to certain exceptions, these restrictions will be in effect for a period of 180 days after the date of this prospectus, subject to extension in the circumstances described in the paragraph below. At any time and without public notice, UBS Securities LLC and Leerink Swann LLC, may, in their sole discretion, release some or all of the securities held by our executive officers, directors and the holders of our common stock from these lock-up restrictions.

Notwithstanding the foregoing, if (1) during the period that begins on the date that is 15 calendar days plus 3 business days before the last day of the 180-day restricted period and ends on the last day of the 180-day restricted period, we issue an earnings release or material news or a material event relating to us occurs or (2) prior to the expiration of the 180-day restricted period, we announce that we will release earnings results during the 16-day period beginning on the last day of the 180-day restricted period, the restrictions described above shall continue to apply until the expiration of the period that is 15 calendar days plus 3 business days after the date of the issuance of the earnings release or the occurrence of the material news or material event.

**INDEMNIFICATION**

We have agreed to indemnify the underwriters against certain liabilities, including certain liabilities under the Securities Act. If we are unable to provide this indemnification, we have agreed to contribute to payments the underwriters may be required to make in respect of those liabilities.

**NASDAQ GLOBAL MARKET LISTING**

After the pricing of this offering, we expect that our common stock will be listed on the NASDAQ Global Market under the symbol "RDUS."

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**Underwriting**

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**PRICE STABILIZATION, SHORT POSITIONS**

In connection with this offering, the underwriters may engage in activities that stabilize, maintain or otherwise affect the price of our common stock, including:

- > stabilizing transactions;
- > short sales;
- > purchases to cover positions created by short sales;
- > imposition of penalty bids; and
- > syndicate covering transactions.

Stabilizing transactions consist of bids or purchases made for the purpose of preventing or retarding a decline in the market price of our common stock while this offering is in progress. These transactions may also include making short sales of our common stock, which involve the sale by the underwriters of a greater number of shares of common stock than they are required to purchase in this offering, and purchasing shares of common stock on the open market to cover positions created by short sales. Short sales may be "covered short sales," which are short positions in an amount not greater than the underwriters' over-allotment option referred to above, or may be "naked short sales," which are short positions in excess of that amount.

The underwriters may close out any covered short position by either exercising their over-allotment option, in whole or in part, or by purchasing shares in the open market. In making this determination, the underwriters will consider, among other things, the price of shares available for purchase in the open market as compared to the price at which they may purchase shares through the over-allotment option.

Naked short sales are short sales made in excess of the over-allotment option. The underwriters must close out any naked short position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the common stock in the open market that could adversely affect investors who purchased in this offering.

The underwriters also may impose a penalty bid. This occurs when a particular underwriter repays to the underwriters a portion of the underwriting discount received by it because the representative has repurchased shares sold by or for the account of that underwriter in stabilizing or short covering transactions.

As a result of these activities, the price of our common stock may be higher than the price that otherwise might exist in the open market. If these activities are commenced, they may be discontinued by the underwriters at any time. The underwriters may carry out these transactions on The NASDAQ Global Market, in the over-the-counter market or otherwise.

**DETERMINATION OF OFFERING PRICE**

Prior to this offering, there was no public market for our common stock. The initial public offering price will be determined by negotiation by us and the representatives of the underwriters. The principal factors to be considered in determining the initial public offering price include:

- > the information set forth in this prospectus and otherwise available to the representatives;
- > our history and prospects and the history of, and prospects for, the industry in which we compete;



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**Underwriting**

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- > our past and present financial performance and an assessment of our management;
- > our prospects for future earnings and the present state of our development;
- > the general condition of the securities markets at the time of this offering;
- > the recent market prices of, and the demand for, publicly traded common stock of generally comparable companies; and
- > other factors deemed relevant by the underwriters and us.

## Affiliations/conflicts of interest

Because one of our board members, Jonathan J. Fleming, is also a member of the board of managers of Leerink Swann LLC, one of the underwriters in this offering, a "conflict of interest" under FINRA Rule 5121 exists. Accordingly, this offer is being made in compliance with FINRA Rule 5121. FINRA Rule 5121 requires that a "qualified independent underwriter" participate in the preparation of this prospectus and the registration statement of which this prospectus is a part and exercise the usual standards of due diligence with respect thereto. UBS Securities LLC has assumed the responsibilities of acting as a qualified independent underwriter. In its role as a qualified independent underwriter, UBS Securities LLC has performed a due diligence investigation and participated in the preparation of this prospectus and the registration statement of which this prospectus is a part. UBS Securities LLC will not receive any additional fees for serving as qualified independent underwriter in connection with this offering. We have agreed to indemnify UBS Securities LLC against liabilities incurred in connection with acting as a qualified independent underwriter, including liabilities under the Securities Act. No underwriter having a conflict of interest under FINRA Rule 5121 will confirm sales to any account over which the underwriter exercises discretionary authority without the specific written approval of the accountholder.

We engaged Leerink Swann LLC as a financial advisor from February 4, 2010 through May 31, 2011, for which it received customary compensation. In connection with this engagement, if we entered into a strategic transaction (which does not include a public offering of securities) prior to June 1, 2012, then Leerink Swann LLC would have been entitled to receive the fees that it otherwise would have received had it been serving as our financial adviser with respect to that transaction. We also engaged Leerink Swann LLC as placement agent in connection with our April 25, 2011 equity offering, for which it received cash and equity consideration. Pursuant to this engagement, which expired on April 25, 2011, if we completed a private placement prior to January 25, 2012 and one or more investors in that private placement were introduced to us by Leerink Swann LLC, then Leerink Swann LLC would have been entitled to receive a fee equal to three percent of the gross proceedings received from those investors.

The equity consideration issued to Leerink Swann LLC as part of the April 25, 2011 private placement is subject to a 180-day lock-up pursuant to FINRA Rule 5110(g)(1). Leerink Swann LLC and any of its affiliates (or permitted assignees) may not sell, transfer, assign, pledge or hypothecate the equity securities, nor may they engage in any hedging, short sale, derivative, put or call transaction that would result in the effective economic disposition of the securities for a period of 180 days from the date of this prospectus.

In addition, certain of the underwriters and their affiliates may in the future from time to time provide investment banking and other financing, trading, banking, research, transfer agent and trustee services to us or our subsidiaries, for which they may in the future receive customary fees and expenses.

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## Notice to investors

### **NOTICE TO PROSPECTIVE INVESTORS IN EUROPEAN ECONOMIC AREA**

In relation to each member state of the European Economic Area, or EEA, that has implemented the Prospectus Directive (each, a relevant member state), other than Germany, with effect from and including the date on which the Prospectus Directive is implemented in that relevant member state (the relevant implementation date), an offer of securities described in this prospectus may not be made to the public in that relevant member state other than:

- > to any legal entity which is a qualified investor as defined in the Prospectus Directive;
- > by the Managers to fewer than 100, or, if the Relevant Member State has implemented the relevant provisions of the 2010 PD Amending Directive, 150, natural or legal persons (other than qualified investors as defined in the Prospectus Directive), as permitted under the Prospectus Directive, subject to obtaining the prior consent of the Bookrunners for any such offer; or
- > in any other circumstances falling within Article 3(2) of the Prospectus Directive;

provided that no such offer of securities shall require us or any underwriter to publish a prospectus pursuant to Article 3 of the Prospectus Directive.

For purposes of this provision, the expression an "offer of securities to the public" in any relevant member state means the communication in any form and by any means of sufficient information on the terms of the offer and the securities to be offered so as to enable an investor to decide to purchase or subscribe for the securities, as the expression may be varied in that member state by any measure implementing the Prospectus Directive in that member state, and the expression "Prospectus Directive" means Directive 2003/71/EC (and amendments thereto, including the 2010 PD Amending Directive, to the extent implemented in the Relevant Member State), and includes any relevant implementing measure in the Relevant Member State, and includes any relevant implementing measure in each relevant member state. The expression 2010 PD Amending Directive means Directive 2010/73/EU.

We have not authorized and do not authorize the making of any offer of securities through any financial intermediary on their behalf, other than offers made by the underwriters with a view to the final placement of the securities as contemplated in this prospectus. Accordingly, no purchaser of the securities, other than the underwriters, is authorized to make any further offer of the securities on behalf of us or the underwriters.

The EEA selling restriction is in addition to any other selling restrictions set out in this prospectus.

### **NOTICE TO PROSPECTIVE INVESTORS IN AUSTRALIA**

This prospectus is not a formal disclosure document and has not been, nor will be, lodged with the Australian Securities and Investments Commission. It does not purport to contain all information that an investor or their professional advisers would expect to find in a prospectus or other disclosure document (as defined in the Corporations Act 2001 (Australia)) for the purposes of Part 6D.2 of the Corporations Act 2001 (Australia) or in a product disclosure statement for the purposes of Part 7.9 of the Corporations Act 2001 (Australia), in either case, in relation to the securities.

The securities are not being offered in Australia to "retail clients" as defined in sections 761G and 761GA of the Corporations Act 2001 (Australia). This offering is being made in Australia solely to "wholesale clients" for the purposes of section 761G of the Corporations Act 2001 (Australia) and, as such, no prospectus, product disclosure statement or other disclosure document in relation to the securities has been, or will be, prepared.

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**Notice to investors**

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This prospectus does not constitute an offer in Australia other than to wholesale clients. By submitting an application for our securities, you represent and warrant to us that you are a wholesale client for the purposes of section 761G of the Corporations Act 2001 (Australia). If any recipient of this prospectus is not a wholesale client, no offer of, or invitation to apply for, our securities shall be deemed to be made to such recipient and no applications for our securities will be accepted from such recipient. Any offer to a recipient in Australia, and any agreement arising from acceptance of such offer, is personal and may only be accepted by the recipient. In addition, by applying for our securities you undertake to us that, for a period of 12 months from the date of issue of the securities, you will not transfer any interest in the securities to any person in Australia other than to a wholesale client.

**NOTICE TO PROSPECTIVE INVESTORS IN HONG KONG**

Our securities may not be offered or sold in Hong Kong, by means of this prospectus or any document other than (i) to "professional investors" within the meaning of the Securities and Futures Ordinance (Cap.571, Laws of Hong Kong) and any rules made thereunder, or (ii) in circumstances which do not constitute an offer to the public within the meaning of the Companies Ordinance (Cap.32, Laws of Hong Kong), or (iii) in other circumstances which do not result in the document being a "prospectus" within the meaning of the Companies Ordinance (Cap.32, Laws of Hong Kong). No advertisement, invitation or document relating to our securities may be issued or may be in the possession of any person for the purpose of issue (in each case whether in Hong Kong or elsewhere) which is directed at, or the contents of which are likely to be accessed or read by, the public in Hong Kong (except if permitted to do so under the securities laws of Hong Kong) other than with respect to the securities which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" within the meaning of the Securities and Futures Ordinance (Cap. 571, Laws of Hong Kong) and any rules made thereunder.

**NOTICE TO PROSPECTIVE INVESTORS IN JAPAN**

Our securities have not been and will not be registered under the Financial Instruments and Exchange Law of Japan (the Financial Instruments and Exchange Law) and our securities will not be offered or sold, directly or indirectly, in Japan, or to, or for the benefit of, any resident of Japan (which term as used herein means any person resident in Japan, including any corporation or other entity organized under the laws of Japan), or to others for re-offering or resale, directly or indirectly, in Japan, or to a resident of Japan, except pursuant to an exemption from the registration requirements of, and otherwise in compliance with, the Financial Instruments and Exchange Law and any other applicable laws, regulations and ministerial guidelines of Japan.

**NOTICE TO PROSPECTIVE INVESTORS IN SINGAPORE**

This document has not been registered as a prospectus with the Monetary Authority of Singapore and in Singapore, the offer and sale of our securities is made pursuant to exemptions provided in sections 274 and 275 of the Securities and Futures Act, Chapter 289 of Singapore, or SFA. Accordingly, this prospectus and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of our securities may not be circulated or distributed, nor may our securities be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor as defined in Section 4A of the SFA pursuant to Section 274 of the SFA, (ii) to a relevant person as defined in section 275(2) of the SFA pursuant to Section 275(1) of the SFA, or any person pursuant to Section 275(1A) of the SFA, and in accordance with the conditions specified in Section 275 of the SFA or (iii) otherwise pursuant to, and in accordance with the conditions of, any

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**Notice to investors**

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other applicable provision of the SFA, in each case subject to compliance with the conditions (if any) set forth in the SFA. Moreover, this document is not a prospectus as defined in the SFA. Accordingly, statutory liability under the SFA in relation to the content of prospectuses would not apply. Prospective investors in Singapore should consider carefully whether an investment in our securities is suitable for them.

Where our securities are subscribed or purchased under Section 275 of the SFA by a relevant person that is:

- > a corporation (that is not an accredited investor as defined in Section 4A of the SFA) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor; or
- > a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary of the trust is an individual who is an accredited investor,  
  
shares of that corporation or the beneficiaries' rights and interest (howsoever described) in that trust shall not be transferable for six months after that corporation or that trust has acquired the shares under Section 275 of the SFA, except:
  - > to an institutional investor (for corporations under Section 274 of the SFA) or to a relevant person defined in Section 275(2) of the SFA, or any person pursuant to an offer that is made on terms that such shares of that corporation or such rights and interest in that trust are acquired at a consideration of not less than \$200,000 (or its equivalent in a foreign currency) for each transaction, whether such amount is to be paid for in cash or by exchange of securities or other assets, and further for corporations, in accordance with the conditions, specified in Section 275 of the SFA;
  - > where no consideration is given for the transfer; or
  - > where the transfer is by operation of law.

In addition, investors in Singapore should note that the securities acquired by them are subject to resale and transfer restrictions specified under Section 276 of the SFA, and they, therefore, should seek their own legal advice before effecting any resale or transfer of their securities.

**NOTICE TO PROSPECTIVE INVESTORS IN SWITZERLAND**

The prospectus does not constitute an issue prospectus pursuant to Article 652a or Article 1156 of the Swiss Code of Obligations, or CO, and the shares will not be listed on the SIX Swiss Exchange. Therefore, the prospectus may not comply with the disclosure standards of the CO and/or the listing rules (including any prospectus schemes) of the SIX Swiss Exchange. Accordingly, the shares may not be offered to the public in or from Switzerland, but only to a selected and limited circle of investors, which do not subscribe to the shares with a view to distribution.

**NOTICE TO PROSPECTIVE INVESTORS IN UNITED KINGDOM**

This prospectus is only being distributed to and is only directed at: (1) persons who are outside the United Kingdom; (2) investment professionals falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, or the Order; or (3) high net worth companies, and other persons to whom it may lawfully be communicated, falling within Article 49(2)(a) to (d) of the Order (all such persons falling within (1)-(3) together being referred to as "relevant persons"). The shares are only available to, and any invitation, offer or agreement to subscribe, purchase or otherwise

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**Notice to investors**

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acquire such shares will be engaged in only with, relevant persons. Any person who is not a relevant person should not act or rely on this prospectus or any of its contents.

**NOTICE TO PROSPECTIVE INVESTORS IN FRANCE**

Neither this prospectus nor any other offering material relating to the shares described in this prospectus has been submitted to the clearance procedures of the *Autorité des Marchés Financiers* or of the competent authority of another member state of the European Economic Area and notified to the *Autorité des Marchés Financiers*. The shares have not been offered or sold and will not be offered or sold, directly or indirectly, to the public in France. Neither this prospectus nor any other offering material relating to the shares has been or will be:

- > released, issued, distributed or caused to be released, issued or distributed to the public in France; or
- > used in connection with any offer for subscription or sale of the shares to the public in France.

Such offers, sales and distributions will be made in France only:

- > to qualified investors (*investisseurs qualifiés*) and/or to a restricted circle of investors (*cercle restreint d'investisseurs*), in each case investing for their own account, all as defined in, and in accordance with articles L.411-2, D.411-1, D.411-2, D.734-1, D.744-1, D.754-1 and D.764-1 of the French *Code monétaire et financier*;
- > to investment services providers authorized to engage in portfolio management on behalf of third parties; or
- > in a transaction that, in accordance with article L.411-2-II-1°-or-2°-or 3° of the French *Code monétaire et financier* and article 211-2 of the General Regulations (*Règlement Général*) of the *Autorité des Marchés Financiers*, does not constitute a public offer (*appel public à l'épargne*).

The shares may be resold directly or indirectly, only in compliance with articles L.411-1, L.411-2, L.412-1 and L.621-8 through L.621-8-3 of the French *Code monétaire et financier*.

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## Where you can find additional information

We have filed with the SEC a registration statement on Form S-1 under the Securities Act with respect to the shares of common stock we are offering to sell. This prospectus, which constitutes part of the registration statement, does not include all of the information contained in the registration statement and the exhibits, schedules and amendments to the registration statement. For further information with respect to us and our common stock, we refer you to the registration statement and to the exhibits and schedules to the registration statement. Statements contained in this prospectus about the contents of any contract, agreement or other document are not necessarily complete, and, in each instance, we refer you to the copy of the contract, agreement or other document filed as an exhibit to the registration statement. Each of these statements is qualified in all respects by this reference.

You may read and copy the registration statement of which this prospectus is a part at the SEC's public reference room, which is located at 100 F Street, N.E., Room 1580, Washington, DC 20549. You can request copies of the registration statement by writing to the Securities and Exchange Commission and paying a fee for the copying cost. Please call the SEC at 1-800-SEC-0330 for more information about the operation of the SEC's public reference room. In addition, the SEC maintains an Internet website, which is located at <http://www.sec.gov>, that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC. You may access the registration statement of which this prospectus is a part at the SEC's Internet website. We are subject to the information reporting requirements of the Exchange Act, and we file reports and other information with the SEC.

We are subject to the information and reporting requirements of the Exchange Act and, in accordance with this law, we file periodic reports, proxy statements and other information with the SEC. These periodic reports, proxy statements and other information are available for inspection and copying at the SEC's public reference facilities and the website of the SEC referred to above.

## Legal matters

Certain legal matters with respect to the legality of the issuance of the shares of common stock offered by this prospectus will be passed upon by Latham & Watkins LLP, Boston, Massachusetts. The underwriters are being represented by Bingham McCutchen LLP, Boston, Massachusetts, in connection with the offering.

## Experts

The financial statements of Radius Health, Inc. at December 31, 2011 and 2010, and for each of the three years in period ended December 31, 2011 appearing in this Prospectus and Registration Statement have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their report thereon appearing elsewhere herein, and are included in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

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**Radius Health, Inc.**

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**Radius Health, Inc.**

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**REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

The Board of Directors and Shareholders of Radius Health, Inc.

We have audited the accompanying balance sheets of Radius Health, Inc. as of December 31, 2011 and 2010, and the related statements of operations, convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit, and cash flows for each of the three years in the period ended December 31, 2011. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. We were not engaged to perform an audit of the Company's internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Radius Health, Inc. at December 31, 2011 and 2010, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2011, in conformity with U.S. generally accepted accounting principles.

/s/ Ernst & Young LLP

Boston, Massachusetts

February 6, 2012, except for the first paragraph of Note 2, as to which  
the date is September 27, 2012

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Table of Contents**Radius Health, Inc.****BALANCE SHEETS****(In thousands, except share and per share amounts)**

	December 31, 2011	December 31, 2010
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 25,128	\$ 10,582
Marketable securities	31,580	7,969
Prepaid expenses and other current assets	6,682	282
Total current assets	63,390	18,833
Property and equipment, net	167	31
Other assets	80	105
Total assets	\$ 63,637	\$ 18,969
<b>Liabilities, convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit</b>		
Current liabilities:		
Accounts payable	\$ 313	\$ 614
Accrued expenses	3,590	2,771
Current portion of note payable, net of discount	2,880	
Total current liabilities	6,783	3,385
Note payable, net of current portion and discount	8,886	
Warrant liability	450	
Other liabilities	10,470	
Commitments and contingencies ( <i>Note 10</i> )		
Series A-1 Convertible Preferred Stock, \$.0001 par value; 1,000,000 shares authorized, 939,612 shares issued and outstanding at December 31, 2011 and no shares issued and outstanding at December 31, 2010	65,675	
Series A-2 Convertible Preferred Stock, \$.0001 par value; 983,213 shares authorized, 983,208 shares issued and outstanding at December 31, 2011 and no shares issued and outstanding at December 31, 2010	79,979	
Series A-3 Convertible Preferred Stock, \$.0001 par value; 142,230 shares authorized, 142,227 shares issued and outstanding at December 31, 2011 and no shares issued and outstanding at December 31, 2010	10,208	
Series A-4 Convertible Preferred Stock, \$.0001 par value; 4,000 shares authorized, 3,998 shares issued and outstanding at December 31, 2011 and no shares issued and outstanding at December 31, 2010	271	
Series A-5 Convertible Preferred Stock, \$.0001 par value; 7,000 shares authorized, 6,443 shares issued and outstanding at December 31, 2011 and no shares issued and outstanding at December 31, 2010	525	
Series A-6 Convertible Preferred Stock, \$.0001 par value; 800,000 shares authorized, no shares issued and outstanding at December 31, 2011 and no shares issued and outstanding at December 31, 2010		
Series A Junior Convertible Preferred Stock, \$.0001 par value; no shares authorized, issued, or outstanding at December 31, 2011 and 63,000 shares authorized, 61,664 shares issued and outstanding at December 31, 2010 (liquidation value \$925,000)		93
Series B Redeemable Convertible Preferred Stock, \$.0001 par value; no shares authorized, issued, or outstanding at December 31, 2011 and 1,600,000 shares authorized, 1,599,997 shares issued and outstanding at liquidation value at December 31, 2010		38,309
Series C Redeemable Convertible Preferred Stock, \$.0001 par value; no shares authorized, issued, or outstanding at December 31, 2011 and 10,146,629 shares authorized, issued and outstanding at liquidation value at December 31, 2010		105,434
Stockholders' deficit:		
Common stock, \$.0001 par value; 100,000,000 shares authorized, 645,399 and 322,807 shares issued and outstanding at December 31, 2011 and December 31, 2010, respectively		
Additional paid-in-capital	2,744	3
Accumulated other comprehensive loss	5	(3)

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Accumulated deficit	(122,359)	(128,252)
Total stockholders' deficit	\$ (119,610)	\$ (128,252)
Total liabilities, convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit	\$ 63,637	\$ 18,969

See accompanying notes.

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**STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS****(In thousands, except share and per share amounts)**

	<b>December 31,</b>		
	<b>2011</b>	<b>2010</b>	<b>2009</b>
<b>Revenue:</b>			
Option fee revenue	\$	\$	\$ 1,616
<b>Operating expenses:</b>			
Research and development	36,179	11,692	14,519
General and administrative	5,330	3,630	2,668
Restructuring		217	
Loss from operations	(41,509)	(15,539)	(15,571)
<b>Other income (expense):</b>			
Other income (expense), net	(236)	824	(7)
Interest income	27	85	489
Interest expense	(758)		
Net loss	\$ (42,476)	\$ (14,630)	\$ (15,089)
<b>Other comprehensive loss, net of tax:</b>			
Unrealized gain (loss) from available-for-sale securities	8	(18)	(232)
Comprehensive loss	\$ (42,468)	\$ (14,648)	\$ (15,321)
Earnings (loss) attributable to common stockholders basic and diluted (Note 5)	\$ 253	\$ (26,773)	\$ (26,494)
<b>Earnings (loss) per share (Note 5):</b>			
Basic	\$ 0.51	\$ (83.42)	\$ (82.68)
Diluted	\$ 0.07	\$ (83.42)	\$ (82.68)
<b>Weighted average shares:</b>			
Basic	499,944	320,942	320,424
Diluted	3,454,276	320,942	320,424

See accompanying notes

Table of Contents**Radius Health, Inc.**

**STATEMENTS OF CONVERTIBLE PREFERRED STOCK, REDEEMABLE CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' DEFICIT**  
(In thousands, except share and per share amounts)

	Convertible preferred stock											
	Series A-1		Series A-2		Series A-3		Series A-4		Series A-5		Series A-6	
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount
Balance at December 31, 2008		\$		\$		\$		\$		\$		\$
Net loss												
Unrealized loss on marketable securities												
Stock-based compensation expense												
Accretion of Preferred Stock issuance costs												
Accretion of Preferred Stock to redemption value												
Accretion of Preferred Stock investor rights/obligations												
Balance at December 31, 2009		\$		\$		\$		\$		\$		\$
Net loss												
Unrealized loss on marketable securities												
Issuance of Common Stock												
Stock-based compensation expense												
Accretion of Preferred Stock issuance costs												
Accretion of Preferred Stock to redemption value												
Accretion of Preferred Stock investor rights/obligations												
Balance at December 31, 2010		\$		\$		\$		\$		\$		\$
Net loss												
Unrealized gain from available-for-sale securities												
Forced conversion to common stock												
Recapitalization <sup>(1)</sup>			983,208	75,979	142,227	9,629	3,998	271				
Issuance of preferred stock	922,286	62,297							6,443	525		
Accretion of dividends on preferred stock		1,968		4,000		579						
Stock-based compensation expense												
Stock options exercised												
Milestone payment settled with stock	17,326	1,410										
Balance at December 31, 2011	939,612	\$ 65,675	983,208	\$ 79,979	142,227	\$ 10,208	3,998	\$ 271	6,443	\$ 525		\$

(1)

*The recapitalization includes the exchange of Series A, Series B and Series C shares for Series A-4, Series A-3, and Series A-2 shares, respectively, in addition to the 1:10 exchange of Series A-2, Series A-3, and Series A-4 preferred stock, which occurred in conjunction with the Merger, and is more fully described in Note 3.*

See accompanying notes.

Table of Contents**Radius Health, Inc.****STATEMENTS OF CONVERTIBLE PREFERRED STOCK, REDEEMABLE CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' DEFICIT (Continued)**

(In thousands, except share and per share amounts)

	Convertible preferred stock						Common stock Shares	Stockholders' deficit Accumulated			Total stockholders' deficit
	Series A		Series B		Series C			Additional paid-in capital	other comprehensive income	Accumulated deficit	
	Share Amount	Shares	Amount	Shares	Amount	Amount	Amount	amount	(loss)	deficit	deficit
Balance at December 31, 2008	61,664	\$ 93	1,599,997	\$ 32,843	10,146,629	\$ 87,352	320,424	\$ 8,013	\$ 247	\$ (83,256)	\$ (74,996)
Net loss										(15,089)	(15,089)
Unrealized loss on marketable securities									(232)		(232)
Stock-based compensation expense								125			125
Accretion of Preferred Stock issuance costs						181		(181)			(181)
Accretion of Preferred Stock to redemption value			2,627		7,224			(7,954)		(1,897)	(9,851)
Accretion of Preferred Stock investor rights/obligations						1,374				(1,374)	(1,374)
Balance at December 31, 2009	61,664	\$ 93	1,599,997	\$ 35,470	10,146,629	\$ 96,131	320,424	\$ 3	\$ 15	\$ (101,616)	\$ (101,598)
Net loss										(14,630)	(14,630)
Unrealized loss on marketable securities									(18)		(18)
Issuance of Common Stock							2,383	2			2
Stock-based compensation expense								134			134
Accretion of Preferred Stock issuance costs						173		(136)		(37)	(173)
Accretion of Preferred Stock to redemption value			2,839		7,812					(10,651)	(10,651)
Accretion of Preferred Stock investor rights/obligations						1,318				(1,318)	(1,318)
Balance at December 31, 2010	61,664	\$ 93	1,599,997	\$ 38,309	10,146,629	\$ 105,434	322,807	\$ 3	\$ (3)	\$ (128,252)	\$ (128,252)
Net loss										(42,476)	(42,476)
Unrealized gain from available-for-sale securities									8		8
Forced conversion to common stock	(21,661)	(33)	(177,697)	(296)	(314,496)	(225)	102,767	554			554
Recapitalization <sup>(1)</sup>	(40,003)	(60)	(1,422,300)	(39,183)	(9,832,133)	(108,425)		8,269		52,712	60,981
Issuance of preferred stock											
Accretion of dividends on preferred stock			1,170		3,216			(6,590)		(4,343)	(10,933)
Stock-based compensation expense								304			304
Stock options exercised							219,825	204			204

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Milestone payment settled  
with stock

Balance at December 31, 2011	\$	\$	\$	645,399	\$	\$ 2,744	\$	5	\$ (122,359)	\$ (119,610)
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(1) *The recapitalization includes the exchange of Series A, Series B and Series C shares for Series A-4, Series A-3, and Series A-2 shares, respectively, in addition to the 1:10 exchange of Series A-2, Series A-3, and Series A-4 preferred stock, which occurred in conjunction with the Merger, and is more fully described in Note 3.*

See accompanying notes.

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Table of Contents**Radius Health, Inc.****STATEMENTS OF CASH FLOWS**  
**(In thousands)**

	Years ended December 31,		
	2011	2010	2009
<b>Operating activities</b>			
Net loss	\$ (42,476)	\$ (14,630)	\$ (15,089)
Adjustments to reconcile net loss to net cash used in operating activities:			
Depreciation	40	70	136
Gain on fixed asset disposal		(100)	
Amortization of premium (accretion of discount) on short-term investments, net	21	303	98
Stock-based compensation expense	304	134	125
Research and development expense to be settled in stock	10,296		
Non-cash interest	165		
Change in fair value of warrant liability and other liability	264		
Milestone payment settled with stock	1,410		
Changes in operating assets and liabilities:			
Prepaid expenses and other current assets	(6,463)	(133)	95
Other long-term assets	25	(27)	
Accounts payable	(301)	(94)	(1,121)
Accrued expenses	819	1,491	(922)
Deferred revenue			(1,615)
Net cash used in operating activities	\$ (35,896)	\$ (12,986)	\$ (18,293)
<b>Investing activities</b>			
Purchases of property and equipment	(176)	(14)	(32)
Proceeds from sale of equipment		149	
Purchases of marketable securities	(32,479)	(24,120)	(36,035)
Maturities of marketable securities	8,855	39,655	53,690
Net cash (used in) provided by investing activities	\$ (23,800)	\$ 15,670	\$ 17,623
<b>Financing activities</b>			
Proceeds from the sale of common stock		2	
Proceeds from exercise of stock options	204		
Net proceeds from the issuance of preferred stock	62,116		
Proceeds on note payable	12,500		
Discount on note payable	(366)		
Deferred financing costs	(56)		
Payments on notes payable	(156)		(8)
Net cash provided by (used in) financing activities	\$ 74,242	\$ 2	\$ (8)
Net increase (decrease) in cash and cash equivalents	14,546	2,686	(678)
Cash and cash equivalents at beginning of year	10,582	7,896	8,574
Cash and cash equivalents at end of year	\$ 25,128	\$ 10,582	\$ 7,896

**Supplemental Disclosures**

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Cash paid for interest	\$	358	\$	\$
<b>Noncash financing activities</b>				
Accretion of preferred stock issuance costs	\$		\$	173
			\$	181
Accretion of dividends on preferred stock	\$	10,933	\$	10,651
			\$	9,850
Accretion of preferred stock investor rights/obligations	\$		\$	1,318
			\$	1,374
Fair value of preferred stock issued in the recapitalization, net of issuance costs	\$	85,879	\$	\$
Fair value of warrants issued	\$	463	\$	\$

See accompanying notes.

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**Radius Health, Inc.**

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**NOTES TO FINANCIAL STATEMENTS**

**(In thousands, except share and per share amounts)**

**1. Nature of business**

Radius Health, Inc. ("Radius" or the "Company"), which was formerly known as MPM Acquisition Corp., is a biopharmaceutical company focused on acquiring and developing new therapeutics for the treatment of osteoporosis and other women's health conditions. The Company's lead product candidate, currently in Phase 3 clinical development, is BA058-SC, a daily subcutaneous injection of novel synthetic peptide analog of human parathyroid hormone-related protein (hPTHrP) for the treatment of osteoporosis. The BA058-SC Phase 3 study began dosing patients in April 2011. The Company is also developing BA058-TD, a short wear time, transdermal form of BA058 delivered using a microneedle technology from 3M Drug Delivery Systems (3M), currently in Phase 1 clinical development. The Company also has two other product candidates, RAD1901, a selective estrogen receptor modulator, or SERM, in Phase 2 clinical development for the treatment of vasomotor symptoms (hot flashes) in women entering menopause and RAD140, a selective androgen receptor modulator, or SARM, currently in preclinical development as a potential treatment for age-related muscle loss, frailty, weight loss associated with cancer cachexia and osteoporosis. As used throughout these financial statements, the terms "Radius," "Company," "we," "us" and "our" refer to Radius Health, Inc. (f/k/a MPM Acquisition Corp.).

Pursuant to an Agreement and Plan of Merger (the "Merger Agreement" or the "Merger") entered into in April 2011 by and among the Company (a public-reporting, Form 10 shell company at the time), RHI Merger Corp., a Delaware corporation and wholly owned subsidiary of the Company ("MergerCo"), and Radius Health, Inc., a privately-held Delaware corporation ("Former Operating Company"), MergerCo merged with and into the Former Operating Company, with the Former Operating Company remaining as the surviving entity and a wholly-owned subsidiary of the Company. This transaction is herein referred to as the "Merger". The Merger was effective on May 17, 2011, upon the filing of a certificate of merger with the Delaware Secretary of State. Following the Merger on May 17, 2011, the Company's board of directors approved the Merger of the Former Operating Company with and into the Company, leaving the Company as the surviving corporation (the "Short-Form Merger"). As part of the Short-Form Merger, the Company, then named MPM Acquisition Corp., changed its name to Radius Health, Inc. and assumed the operations of the Former Operating Company.

The Company is subject to the risks associated with emerging, technology-oriented companies with a limited operating history, including dependence on key individuals, a developing business model, market acceptance of the Company's product candidates, competition for its product candidates, and the continued ability to obtain adequate financing to fund the Company's future operations. The Company has an accumulated deficit of \$122,359 through December 31, 2011. The Company has incurred losses and expects to continue to incur additional losses for the foreseeable future. The Company intends to obtain additional equity and/or debt financing in order to meet working capital requirements and to further develop its product candidates. As part of the Merger and Short-Form Merger in May 2011, the Company assumed the Former Operating Company's agreement with existing and new investors pursuant to which the Former Operating Company received an irrevocable, legally binding commitment for proceeds of \$64,284 from the issuance of shares of Series A-1 Convertible Preferred Stock in three closings. The proceeds from each closing were generally due to the Company upon its written request. The first of the three closings was completed prior to the Merger on May 17, 2011 for gross proceeds of \$21,428, the second closing was completed on November 18, 2011 for gross proceeds of \$21,428, and the third closing was completed on December 14, 2011 for gross proceeds of \$21,428. The Company believes that its existing cash and cash equivalents and

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**Radius Health, Inc.**

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

marketable securities, coupled with its remaining borrowing capacity under the Loan and Security Agreement described in Note 11, are sufficient to finance its operations, including its obligations under the Nordic agreement described in Note 16, into the first quarter of 2013.

**2. Summary of significant accounting policies**

Effective January 1, 2012, we adopted Accounting Standards Update No. 2011-05, *Presentation of Comprehensive Income* ("ASU No. 2011-05"), as amended by Accounting Standards Update No. 2011-12, *Deferral of the Effective Date for Amendments to the Presentation of Reclassifications of Items Out of Accumulated Other Comprehensive Income*. These updates require that all non-owner changes in stockholders' equity be presented either in a single continuous statement of comprehensive income or in two separate but consecutive statements and eliminate the option to present components of other comprehensive income as part of the statement of changes in stockholders' equity. Our financial statements have been presented to reflect the retrospective application of this new accounting pronouncement. These updates do not, however, change the items that must be reported in other comprehensive income or the determination of net income.

**Use of estimates**

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires the Company's management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. Actual results could differ from those estimates.

**Cash equivalents**

The Company considers all highly liquid investment instruments with an original maturity when purchased of three months or less to be cash equivalents. Cash equivalents at December 31, 2011 and 2010 are primarily comprised of money market funds.

**Marketable securities**

All investment instruments with an original maturity date, when purchased, in excess of three months have been classified as current marketable securities. These marketable securities are classified as available-for-sale and such securities are carried at fair value. Unrealized gains and losses, if any, are included within other comprehensive income (loss) within stockholders' deficit. The amortized cost of debt securities in this category is adjusted for amortization of premiums and accretion of discounts to maturity. Such amortization is included in interest income. Realized gains and losses on available-for-sale securities are included in interest income. The cost of securities sold is based on the specific identification method. The Company periodically reviews the portfolio of securities to determine whether an other-than-temporary impairment has occurred. No such losses have occurred to date. There were no realized gains or losses on the sale of securities for the years ended December 31, 2011 and 2010.

**Fair value measurements**

The fair value hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets (Level 1), and the lowest priority to unobservable inputs (Level 3). The Company's financial assets are classified within the fair value hierarchy based on the lowest level of input that is

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

significant to the fair value measurement. The three levels of the fair value hierarchy, and its applicability to the Company's financial assets, are described below:

*Level 1* Unadjusted quoted prices in active markets that are accessible at the measurement date of identical, unrestricted assets.

*Level 2* Quoted prices for similar assets, or inputs that are observable, either directly or indirectly, for substantially the full term through corroboration with observable market data. Level 2 includes investments valued at quoted prices adjusted for legal or contractual restrictions specific to the security.

*Level 3* Pricing inputs are unobservable for the asset, that is, inputs that reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset. Level 3 includes private investments that are supported by little or no market activity.

The Company's financial assets are classified as Level 1, Level 2 and Level 3 assets as of December 31, 2011 and 2010 (Note 7). The carrying amounts of the Company's financial instruments, which include cash equivalents, marketable securities, accounts payable, warrant liabilities, assets and liabilities related to Nordic (Note 16) and accrued expenses, approximate their estimated fair values as of December 31, 2011 and 2010. Money market funds are valued using quoted market prices with no valuation adjustments applied. Accordingly, these securities are categorized as Level 1. Assets utilizing Level 2 inputs include government agency securities, including direct issuance bonds, and corporate bonds. These assets are valued using third party pricing resources which generally use interest rates and yield curves observable at commonly quoted intervals of similar assets as observable inputs for pricing. Fair value for Level 3 is based upon the fair values determined using the probability-weighted expected return method, or PWERM, as discussed in Note 7.

**Concentrations of credit risk and off-balance-sheet risk**

Financial instruments that potentially subject the Company to credit risk primarily consist of cash and cash equivalents and available-for-sale marketable securities. The Company maintains its cash and cash equivalents and marketable securities with financial institutions. The Company is currently investing its excess cash in money market funds and other securities, and the management of these investments is not discretionary on the part of the financial institution. The Company's credit exposure on its marketable securities is limited by its diversification among United States government and agency debt securities. The Company has no significant off-balance-sheet risks such as foreign exchange contracts, option contracts, or other hedging arrangements.

**Property and equipment**

Property and equipment is stated at cost and depreciated using the straight-line method over the estimated useful lives of the respective assets:

Furniture	3 years
Equipment	5 years
Software	3 years
Leasehold improvements	Shorter of lease or useful life of the asset

See Note 8, Property and Equipment.

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**Radius Health, Inc.**

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

**Revenue recognition**

To date, all of the Company's revenue has been generated under an option agreement. The Company recognized revenue ratably over the option period.

**Research and development**

The Company accounts for research and development costs by expensing such costs to operations as incurred. Research and development costs primarily consist of clinical testing costs, including payments in cash and stock made to contracted research organizations, personnel costs, outsourced research activities, laboratory supplies, and license fees.

Nonrefundable advance payments for goods or services to be received in the future for use in research and development activities are deferred and capitalized. The capitalized amounts will be expensed as the related goods are delivered or the services are performed.

**Licensing agreements**

Costs associated with licenses of technology are expensed as incurred, and are included in research and development expenses.

**Impairment of long-lived assets**

When impairment indicators exist, the Company's management evaluates long-lived assets for potential impairment. Potential impairment is assessed when there is evidence that events or changes in circumstances have occurred that indicate that the carrying amount of a long-lived asset may not be recovered. Recoverability of these assets is assessed based on undiscounted expected future cash flows from the assets, considering a number of factors, including past operating results, budgets and economic projections, market trends, and product development cycles. An impairment in the carrying value of each asset is assessed when the undiscounted expected future cash flows derived from the asset are less than its carrying value.

Impairments, if any, are recognized in earnings. An impairment loss would be recognized in an amount equal to the excess of the carrying amount over the undiscounted expected future cash flows. No impairment charges have been recognized since inception.

**Segment information**

Operating segments are defined as components of an enterprise engaging of business activities for which discrete financial information is available and regularly reviewed by the chief operating decision maker in deciding how to allocate resources and in assessing performance. The Company views its operations and manages its business in one operating segment and the Company operates in one geographic segment.

**Income taxes**

The Company accounts for income taxes under the liability method. Deferred tax assets and liabilities are determined based on differences between financial reporting and income tax basis of assets and liabilities, as well as net operating loss carryforwards, and are measured using the enacted tax laws that will be in effect when the differences reverse. Deferred tax assets are reduced by a valuation allowance to reflect the

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**Radius Health, Inc.**

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

uncertainty associated with their ultimate realization. The effect on deferred taxes of a change in tax rate is recognized in income or loss in the period that includes the enactment date.

In July 2006, the FASB issued ASC No. 740-10, *Accounting for Uncertainty in Income Taxes*. ASC No. 740-10 establishes a minimum threshold for financial statement recognition of the benefit of positions taken, or expected to be taken, in filing tax returns. ASC No. 740-10 requires the evaluation of tax positions taken, or expected to be taken, in the course of preparing the Company's tax returns to determine whether the tax positions are "more likely than not" of being sustained by the applicable tax authority. Tax positions not deemed to meet the more-likely-than-not threshold would be recorded as a tax expense. The Company's adoption of ASC No. 740-10 in 2009 did not have a material effect on the Company's financial statements.

The Company uses judgment to determine the recognition threshold and measurement attribute for financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. Any material interest and penalties related to unrecognized tax benefits are recognized in income tax expense.

Due to uncertainty surrounding the realization of the favorable tax attributes in future tax returns, the Company has recorded a full valuation allowance against otherwise realizable net deferred tax assets as of December 31, 2011 and 2010.

**Redeemable convertible preferred stock**

Prior to the Series A-1 Financing on May 17, 2011, the carrying value of the Company's Series B and Series C redeemable convertible preferred stock was adjusted by periodic accretions such that the carrying value will equal the redemption amount at the redemption date. The carrying value was also adjusted to reflect dividends that accrue quarterly on the Series B and C redeemable convertible preferred stock (Note 12). In connection with the recapitalization discussed in Note 4, the Company's Preferred Stock is no longer redeemable, other than upon a deemed liquidation event, as defined.

**Preferred stock accounting**

The Company accounts for an amendment that adds, deletes or significantly changes a substantive contractual term (e.g., one that is at least reasonably possible of being exercised), or fundamentally changes the nature of the preferred shares as an extinguishment (Note 4).

**Financial instruments indexed to and potentially settled in the company's common stock**

The Company evaluates all financial instruments issued in connection with its equity offerings when determining the proper accounting treatment for such instruments in the Company's financial statements. The Company considers a number of generally accepted accounting principles to determine such treatment and evaluates the features of the instrument to determine the appropriate accounting treatment. The Company utilizes the Black-Scholes method or other appropriate methods to determine the fair value of its derivative financial instruments. Key valuation factors in determining the fair value include, but are not limited to, the current stock price as of the date of measurement, the exercise price, the remaining contractual life, expected volatility for the instrument and the risk-free interest rate. For financial instruments that are determined to be classified as liabilities on the balance sheet, changes in fair value are recorded as a gain or loss in the Company's Statement of Operations with the corresponding amount recorded as an adjustment to the liability on its Balance Sheet.

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)****Stock-based compensation**

The Company recognizes the compensation cost of employee stock-based awards using the straight-line method over the requisite service period of the award. The Company accounts for transactions in which services are received from non-employees in exchange for equity instruments based on the estimated fair value of such services received or of the equity instruments issued, whichever is more reliably measured. The fair value of unvested non-employee awards are remeasured at each reporting period and expensed over the vesting term of the underlying stock options.

During the years ended December 31, 2011, 2010 and 2009, the Company recorded approximately \$170, \$100 and \$100 of employee stock-based compensation expense, respectively. The Company estimates the fair value of each option award using the Black-Scholes-Merton option-pricing model. Weighted-average information and assumptions used in the option-pricing model for employee stock-based compensation are as follows.

	Year ended December 31,		
	2011	2010	2009
Expected term (years)	6.25	6.25	6.25
Volatility	60%	58%	57 59%
Expected dividend yield	0%	0%	0%
Risk-free interest rates	1.35%	1.92%	2.6 2.7%

In calculating the estimated fair value of the Company's stock options, the Black-Scholes-Merton option-pricing model requires the consideration of the following six variables for purposes of estimating fair value:

- > The stock option exercise price;
- > The expected term of the option;
- > The grant date price of the Company's common stock, which is issuable upon exercise of the option;
- > The expected volatility of the Company's common stock;
- > The expected dividends on the Company's common stock; and
- > The risk-free interest rate for the expected option term.

The expected term of the stock options granted represents the period of time that options granted are expected to be outstanding. For options granted prior to January 1, 2008, the expected term was calculated using the "simplified" method as prescribed by the SEC's Staff Accounting Bulletin No. 107, *Share-Based Payment*. For options granted after January 1, 2008, the Company calculated the expected term using similar assumptions. The expected volatility is a measure of the amount by which the Company stock price is expected to fluctuate during the term of the options granted. The Company determines the expected volatility based on a review of the historical volatility of similar publicly held companies in the biotechnology field over a period commensurate with the option's expected term. The Company has never declared or paid any cash dividends on its common stock and does not expect to do so in the foreseeable future. Accordingly, it uses an expected dividend yield of zero. The risk-free interest rate is the implied yield available on U.S. Treasury issues with a remaining life consistent with the option's expected term on the date of grant. The Company applies an estimated



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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

forfeiture rate to current period expense to recognize compensation expense only for those awards expected to vest. The Company estimates forfeitures based upon historical data, adjusted for known trends, and will adjust the estimate of forfeitures if actual forfeitures differ or are expected to differ from such estimates. Subsequent changes in estimated forfeitures are recognized through a cumulative adjustment in the period of change and also will impact the amount of stock-based compensation expense in future periods. The forfeiture rate was estimated to be 3.7%, 2.8% and 2.4% for the years ended December 31, 2011, 2010 and 2009, respectively.

**Net income (loss) per common share**

Net income (loss) per common share is calculated using the two-class method, which is an earnings allocation formula that determines net income (loss) per share for the holders of the Company's common shares and participating securities. All series of Preferred Stock, excluding the Former Operating Company's Series A Convertible Preferred Stock, contain participation rights in any dividend paid by the Company and are deemed to be participating securities. Net income available to common shareholders and participating convertible preferred shares is allocated to each share on an as-converted basis as if all of the earnings for the period had been distributed. The participating securities do not include a contractual obligation to share in losses of the Company and are not included in the calculation of net loss per share in the periods that have a net loss.

Diluted net income per share is computed using the more dilutive of (a) the two-class method, or (b) the if-converted method. The Company allocates net income first to preferred stockholders based on dividend rights and then to common and preferred stockholders based on ownership interests. The weighted-average number of common shares outstanding gives effect to all potentially dilutive common equivalent shares, including outstanding stock options, warrants, and potential issuance of stock upon the issuance of Series A-6 Convertible Preferred Stock ("Series A-6") as settlement of the liability to Nordic Bioscience ("Nordic"). Common equivalent shares are excluded from the computation of diluted net income (loss) per share if their effect is anti-dilutive.

**Recently adopted accounting standard**

In October 2009, the FASB issued ASU 2009-13. ASU 2009-13 amends existing revenue recognition accounting pronouncements that are currently within the scope of FASB ASC Subtopic 605-25 (previously included within EITF 00-21, *Revenue Arrangements with Multiple Deliverables* ("EITF 00-21")). The consensus to ASU 2009-13 provides accounting principles and application guidance on whether multiple deliverables exist, how the arrangement should be separated, and the consideration allocated. This guidance eliminates the requirement to establish the fair value of undelivered products and services and instead provides for separate revenue recognition based upon management's estimate of the selling price for an undelivered item when there is no other means to determine the fair value of that undelivered item. EITF 00-21 previously required that the fair value of the undelivered item be the price of the item either sold in a separate transaction between unrelated third parties or the price charged for each item when the item is sold separately by the vendor. Under EITF 00-21, if the fair value of all of the elements in the arrangement was not determinable, then revenue was deferred until all of the items were delivered or fair value was determined. This new approach is effective prospectively for revenue arrangements entered into or materially modified in fiscal years beginning on or after June 15, 2010. On January 1, 2011, the Company adopted ASU 2009-13 on a prospective basis. The adoption did not have a material impact on the Company's financial position or results of operations, but could have an impact on how the Company accounts

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**Radius Health, Inc.**

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

for any future collaboration agreements, should the Company enter into any such agreements in the future.

**New accounting pronouncements**

In December 2011, FASB issued Accounting Standard Update No. 2011-11, *Disclosures about Offsetting Assets and Liabilities* ("ASU No. 2011-11"), which will require disclosures for entities with financial instruments and derivatives that are either offset on the balance sheet in accordance with ASC 210-20-45 or ASC 815-10-45, or subject to a master netting arrangement. ASU No. 2011-11 is effective for interim and annual periods beginning on or after January 1, 2013. The Company has not completed its review of ASU No. 2011-11, but it does not expect its adoption to have a material impact on the Company's results of operations, financial position or cash flows.

In June 2011, FASB issued ASU No. 2011-05, which will require companies to present the components of net income and other comprehensive income ("OCI") either as one continuous statement or as two consecutive statements. ASU No. 2011-05 eliminates the option to present components of OCI as part of the statement of changes in stockholders' equity. The update does not change the items which must be reported in OCI, how such items are measured or when they must be reclassified to net income. In December 2011, FASB issued Accounting Standard Update No. 2011-12, *Deferral of the Effective Date for Amendments to the Presentation of Reclassifications of Items Out of Accumulated Other Comprehensive Income in ASU 2011-05* ("ASU No. 2011-12"), which defers the requirement in ASU No. 2011-05 that companies present reclassification adjustments for each component of accumulated OCI and OCI. ASU No. 2011-05 was set to be effective for interim and annual periods beginning after December 15, 2011, but is deferred by ASU No. 2011-12. The Company adopted ASU No. 2011-05 on January 1, 2012. Its adoption did not have a material impact on its financial statements or results of operations.

In May 2011, FASB issued ASU No. 2011-04, *Fair Value Measurement (Topic 82) Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRSs* ("ASU No. 2011-04"). The amendments in this update will ensure that fair value has the same meaning in U.S. GAAP and in IFRS and that their respective fair value measurement and disclosure requirements are the same. This update is effective prospectively for interim and annual periods beginning after December 15, 2011. Early adoption by public entities is not permitted, and the Company is therefore required to adopt this ASU on January 1, 2012. The Company has not completed its review of ASU No. 2011-04, but it does not expect its adoption to have a material impact on the Company's results of operations, financial position or cash flows.

**3. Merger**

As described in Note 1, the Company completed a reverse merger transaction with the Former Operating Company on May 17, 2011, pursuant to which the Company changed its name from MPM Acquisition Corp. to Radius Health, Inc. and assumed the operations of the Former Operating Company. The accompanying financial statements and the related disclosures take into account the Merger and Short-Form Merger transactions. In addition, all historical share and per share amounts in the financial statements relating to the Former Operating Company have been retroactively adjusted for all periods presented to give effect to the 1:15 reverse stock split of all the Former Operating Company's capital stock (the "Reverse Stock Split"), including reclassifying an amount equal to the

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

reduction in par value to additional paid-in-capital, approved by the Former Operating Company's board of directors prior to the Merger on May 17, 2011.

As of the effective time of the Merger (the "Effective Time"), the legal existence of MergerCo ceased and all of the shares of the Former Operating Company's common stock, par value \$0.01 per share, and shares of the Former Operating Company's preferred stock, par value \$0.01 per share, that were outstanding immediately prior to the Merger were cancelled and converted into the right to receive shares of the Company's common or preferred stock, as applicable. Each outstanding share of the Former Operating Company common stock outstanding immediately prior to the Effective Time was automatically converted into the right to receive one share of the Company's common stock, \$0.0001 par value per share (the "Common Stock") and each outstanding share of the Company's preferred stock outstanding immediately prior to the Effective Time was automatically converted into the right to receive one-tenth of one share of the Company's preferred stock, \$0.0001 par value per share (the "Preferred Stock") as consideration for the Merger. The December 31, 2010 financial statements, specifically common stock and additional paid-in-capital, have been adjusted to reflect the change in common stock par value.

The Company assumed all options and warrants of the Former Operating Company outstanding immediately prior to the Effective Time, which became exercisable for shares of the Company's Common Stock or Preferred Stock, as the case may be. Contemporaneously with the closing of the Merger, pursuant to the terms of a Redemption Agreement dated April 25, 2011 by and among the Company and its then-current stockholder, the Company completed the repurchase of 5,000,000 shares of Common Stock from its former sole stockholder in consideration of an aggregate of \$50 (the "Redemption"). The 5,000,000 shares constituted all of the then issued and outstanding shares of the Company's capital stock, on a fully-diluted basis, immediately prior to the Merger. Upon completion of the Merger and the Redemption, the former stockholders of the Former Operating Company held 100% of the outstanding shares of capital stock of the Company.

Pursuant to the Merger, the Company assumed all of the Former Operating Company's obligations under its existing contracts. In particular, the Company has assumed the rights and obligations of the Former Operating Company under that certain Series A-1 Convertible Preferred Stock Purchase Agreement, dated as of April 25, 2011, as amended, (the "Purchase Agreement") with that certain investors listed therein (the "Investors") pursuant to which, among other things, the Company was obligated to issue and sell to the Investors up to an aggregate of 789,553 shares of Series A-1 Convertible Preferred Stock, par value \$.0001 per share (the "Series A-1"), each at a purchase price per share of \$81.42, to be completed in three closings for cash proceeds of \$64,284. The transactions covered by the Purchase Agreement are referred to herein as the "Series A-1 Financing". An initial closing was completed on May 17, 2011 by the Former Operating Company prior to the Merger.

**4. Recapitalization**

Subsequent to the Reverse Stock Split and prior to the Merger, the Former Operating Company underwent a recapitalization pursuant to which the preferred stock of the Company (Series A Convertible Preferred Stock ("Series A"), Series B Convertible Preferred Stock ("Series B"), and Series C Convertible Preferred Stock ("Series C"), collectively "Old Preferred Stock") was exchanged for a new series of convertible preferred stock (Series A-2 Convertible Preferred Stock ("Series A-2"), Series A-3 Convertible Preferred Stock ("Series A-3"), Series A-4 Convertible Preferred Stock ("Series A-4"), collectively with Series A-5 Convertible Preferred Stock ("Series A-5"), "New Preferred Stock") to the

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

extent that the existing stockholder participated in the Series A-1 Financing in an amount at least at the level its Pro Rata Share, as defined in the Purchase Agreement. According to the amended Articles of Incorporation of the Former Operating Company, stockholders who did not participate in the Series A-1 Financing in an amount at least equal to their Pro Rata Share amount were subject to a forced conversion (the "Forced Conversion") to common stock, at a rate of 1 share of common stock for every 5 shares of Old Preferred Stock to be so converted. As a result, 21,661 shares of Series A, 177,697 shares of Series B and 314,496 shares of Series C converted into 102,767 shares of the Company's common stock on May 17, 2011.

The 9,832,133 shares of Series C convertible preferred stock that remained outstanding after the Forced Conversion, were recapitalized and exchanged for 9,832,133 shares of Series A-2, the 1,422,300 shares of Series B convertible preferred stock that remained outstanding after the Forced Conversion, were recapitalized and exchanged for 1,422,300 shares of Series A-3, and the 40,003 shares of Series A convertible preferred stock that remained outstanding after the Forced Conversion, were exchanged for 40,003 shares of Series A-4. All prior dividends that had accrued on the original Series B and Series C Preferred Stock through May 17, 2011 were forfeited by the holders as part of the recapitalization. In addition, the holders of the original Series B and Series C Preferred Stock waived their contingent redemption rights on such shares.

Certain investors participated in the Series A-1 Financing in an amount in excess of their Pro Rata Share amount and as consideration for investing such excess amount, received that number of additional shares of Series A-1 as set forth within the Purchase Agreement. The Former Operating Company issued 1,327,506 additional shares of Series A-1 in exchange for this additional investment.

In accordance with the Purchase Agreement, the Stage I Closing occurred on May 17, 2011 and resulted in net proceeds of \$20,347 as consideration for the issuance of 2,631,845 shares of Series A-1 which were converted in the Merger as described below into the right to receive one-tenth of one share of Series A-1. The issuance of the aforementioned additional shares did not generate a beneficial conversion feature at the date of issuance or at December 31, 2011.

Subsequent to the recapitalization and financing, pursuant to the Merger, each outstanding share of preferred stock was converted into the right to receive one-tenth of one share of Preferred Stock. After the recapitalization, Series A-1 and Series A-5 (as described in Note 16) financings and the Merger, the Company had the following shares of preferred stock outstanding at December 31, 2011, which include the shares of Series A-1 issued in the Stage II Closing and Stage III Closing as discussed below:

**Number of shares**

Series A-1	939,612
Series A-2	983,208
Series A-3	142,227
Series A-4	3,998
Series A-5	6,443

The Company has accounted for the recapitalization and exchange of the Old Preferred Stock for the New Preferred Stock as an extinguishment of the Old Preferred Stock due to the significance of the changes to the substantive contractual terms of the preferred stock, which included the forfeiture of accrued dividends on the Series A and B, the removal of the contingent redemption feature pursuant to which the Series B and Series C was redeemable at the option of the holder at a future determinable

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**Radius Health, Inc.**

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
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date, and the addition of a mandatory conversion provision to common stock upon the listing of the Company's Common Stock on a national securities exchange, among other changes. Refer to Note 11 for the rights and preferences on the New Preferred Stock. Accordingly, the Company has recorded the difference between the fair value of the new shares of Preferred Stock issued in the exchange and the carrying value of the Old Preferred Stock shares as a gain of \$60,937 that was recorded within stockholders' deficit. The Company allocated \$8,269 to additional paid-in capital to recover the amount of additional paid-in capital that had previously been reduced by dividends accreted on Series B and Series C that was forfeited as part of the recapitalization, and the balance of \$52,712 was recorded to accumulated deficit. The gain on extinguishment is reflected as a preferred stock redemption in the calculation of net income available to common stockholders in accordance with Accounting Standards Codification ("ASC") 260 *Earnings Per Share*. The fair value of the Series A-1, Series A-2, Series A-3 and Series A-4 was determined using the probability-weighted expected return method. (See Note 7).

In connection with the Series A-1 Financing, the Former Operating Company issued to a placement agent, and in the Merger, the Company assumed, a warrant to purchase 818 shares of Series A-1 Preferred Stock. The warrant has an exercise price of \$81.42 and expires on May 17, 2016. The warrant is classified as a liability on the Company's balance sheet and was recorded as a component of the issuance costs related to the Series A-1 Financing. The Company recorded the warrant at a fair value of \$35, calculated using the Black-Scholes option pricing model. The revaluation of the warrant at December 31, 2011 was not material to the financial statements.

Subsequent to the exchange of outstanding shares of preferred stock for the right to receive one-tenth of one share of Preferred Stock, in accordance with the Purchase Agreement, the Stage II Closing occurred on November 18, 2011 and resulted in net proceeds of approximately \$20,977 through the sale of 263,178 shares of Series A-1. On December 14, 2011, the Stage III Closing occurred resulting in net proceeds of approximately \$20,973 through the sale of 263,180 shares of Series A-1. The issuance of the shares in the Stage II and Stage III Closings did not generate beneficial conversion features at the date of issuance or at December 31, 2011.

In connection with the Stage II and Stage III Closings, the Former Operating Company issued to a placement agent, warrants to purchase 1,636 shares of Series A-1 Preferred Stock. The warrants have an exercise price of \$81.42 and expire after five (5) years. The warrant is classified as a liability on the Company's balance sheet and was recorded as a component of the issuance costs related to the Series A-1 Financing. The Company recorded the warrant at a fair value of \$68, calculated using the Black-Scholes option pricing model. The revaluation of the warrant at December 31, 2011 was not material to the financial statements.

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**(In thousands, except share and per share amounts)****5. Net loss per share**

Basic and diluted net loss per share is calculated as follows:

	Year ended December 31,		
	2011	2010	2009
	(In thousands, except share and per share amounts)		
<b>Numerator:</b>			
Net loss	\$ (42,476)	\$ (14,630)	\$ (15,089)
Extinguishment of preferred stock	60,937		
Accretion of preferred stock	(10,933)	(12,143)	(11,405)
Earnings attributable to participating preferred stockholders	(7,275)		
Earnings (loss) attributable to common stockholders basic	253	(26,773)	(26,494)
Effect of dilutive convertible preferred stock			
Earnings (loss) attributable to common stockholders diluted	\$ 253	\$ (26,773)	\$ (26,494)
<b>Denominator:</b>			
Weighted-average number of common shares used in earnings (loss) per share basic	499,944	320,942	320,424
Effect of dilutive options to purchase common stock	464,933		
Effect of dilutive convertible preferred stock	2,489,399		
Weighted-average number of common shares used in earnings (loss) per share diluted	3,454,276	320,942	320,424
Earnings (loss) per share basic	\$ 0.51	\$ (83.42)	\$ (82.68)
Effect of dilutive options to purchase common stock	(0.24)		
Effect of dilutive convertible preferred stock	(0.20)		
Earnings (loss) per share diluted	\$ 0.07	\$ (83.42)	\$ (82.68)

The following potentially dilutive securities, prior to the use of the treasury stock method, have been excluded from the computation of diluted weighted-average shares outstanding, as they would be anti-dilutive:

	Year ended December 31,		
	2011	2010	2009
Convertible preferred stock	5,419,946	11,808,290	11,808,290
Options to purchase common stock	894,160	1,461,865	1,216,718
Warrants	8,860	1,333	1,333

Table of Contents**Radius Health, Inc.****NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)****6. Marketable securities**

Available-for-sale marketable securities and cash and cash equivalents consist of the following:

	Carrying value	December 31, 2011		Fair value
		Gross unrealized gains	Gross unrealized losses	
<b>Cash and cash equivalents:</b>				
Cash	\$ 5,003	\$	\$	\$ 5,003
Money market	20,125			20,125
Domestic corporate commercial paper				
Domestic corporate debt securities				
<b>Total</b>	<b>\$ 25,128</b>	<b>\$</b>	<b>\$</b>	<b>\$ 25,128</b>
<b>Marketable securities:</b>				
Domestic corporate debt securities	10,260		(6)	10,254
Domestic corporate commercial paper	18,987	11		18,998
U.S. government securities	2,328			2,328
<b>Total</b>	<b>\$ 31,575</b>	<b>\$ 11</b>	<b>\$ (6)</b>	<b>\$ 31,580</b>

	Carrying value	December 31, 2010		Fair value
		Gross unrealized gains	Gross unrealized losses	
<b>Cash and cash equivalents:</b>				
Cash	\$ 232	\$	\$	\$ 232
Money market	6,452			6,452
Domestic corporate commercial paper	2,892			2,892
Domestic corporate debt securities	1,006			1,006
<b>Total</b>	<b>\$ 10,582</b>	<b>\$</b>	<b>\$</b>	<b>\$ 10,582</b>
<b>Marketable securities:</b>				
Domestic corporate debt securities	5,023		(3)	5,020
Domestic corporate commercial paper	2,949			2,949
<b>Total</b>	<b>\$ 7,972</b>	<b>\$</b>	<b>\$ (3)</b>	<b>\$ 7,969</b>

There were no debt securities that had been in an unrealized loss position for more than 12 months at December 31, 2011. The Company evaluated the securities for other-than-temporary impairments based on quantitative and qualitative factors, noting none. There were 7 debt securities that had been in an unrealized loss position for less than 12 months at December 31, 2011. The aggregate unrealized loss on these securities was \$7 and the fair value was \$8,015. The Company considered the decline in market value for these securities to be primarily

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attributable to current economic conditions. As it is not more likely than not that the Company will be required to sell these securities before the recovery of their amortized cost basis, which may be maturity, the Company does not consider these investments to be other-than-temporarily impaired as of December 31, 2011.

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**(In thousands, except share and per share amounts)****7. Fair value measurements**

The following tables summarize the assets and liabilities measured at fair value on a recurring basis in the accompanying balance sheets as of December 31, 2011 and 2010 based on the criteria discussed in Note 2:

	December 31, 2011			Total
	Level 1	Level 2	Level 3	
<b>Assets</b>				
Cash and cash equivalents	\$ 5,003	\$	\$	\$ 5,003
Money market	20,125			20,125
Marketable securities:				
Domestic corporate debt securities		10,254		10,254
Domestic corporate commercial paper		18,998		18,998
U.S. government securities		2,328		2,328
Stock dividend asset			3,379	3,379
	\$ 25,128	\$ 31,580	\$ 3,379	\$ 60,087

	December 31, 2011			
	Level 1	Level 2	Level 3	Total
<b>Liabilities</b>				
Warrant liability	\$	\$	\$ 450	\$ 450
Other liability			10,470	10,470
	\$	\$	\$ 10,920	\$ 10,920

	December 31, 2010			Total
	Level 1	Level 2	Level 3	
<b>Assets</b>				
Cash and cash equivalents	\$ 10,582	\$	\$	\$ 10,582
Marketable securities:				
Domestic corporate debt securities		5,020		5,020
Domestic corporate commercial paper		2,949		2,949
	\$ 10,582	\$ 7,969	\$	\$ 18,551

Fair value for Level 1 is based on quoted market prices. Fair value for Level 2 is based on quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active and model-based valuation techniques for which all significant assumptions are observable in the market or can be corroborated by observable market data for substantially the full term of the assets. Inputs are obtained from various sources including market participants, dealers and brokers. Fair value for Level 3 is based upon the fair values determined using the probability-weighted expected return method, or PWERM, as discussed below. Changes in fair value of the Level 3

assets and liabilities are recorded as other income (expense) in the statement of operations.

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
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The stock dividend asset represents the prepaid balance of the accrued stock dividend ("other liability" or "stock liability") to issue shares of Series A-6 convertible preferred stock ("Series A-6") to Nordic (Note 16) and the amount of research and development expense related to stock dividend amounts being recognized ratably over the estimated per patient treatment period. The fair value of the stock liability is based upon the fair value of the Series A-6 shares as determined using PWERM, which considers the value of preferred and common stock based upon analysis of the future values for equity assuming various future outcomes. Accordingly, share value is based upon the probability-weighted present value of expected future net cash flows, considering each of the possible future events, discount rate as determined using the capital asset pricing model, as well as the rights and preferences of each share class. PWERM is complex as it requires numerous assumptions relating to potential future outcomes of equity, hence, the use of this method can be applied: (i) when possible future outcomes can be predicted with reasonable certainty; and (ii) when there is a complex capital structure (i.e., several classes of preferred and common stock). The Company had previously used the option-pricing method to value its common stock. The option-pricing method treats common stock and preferred stock as call options on the enterprise's value, with exercise prices based on the liquidation preference of the preferred stock. The Company utilized the PWERM approach in its most recent valuation based on the Company's expectations regarding the time to becoming a listed, publicly-traded entity as well as the recent Series A-1 financing and the initiation of BA058-SC Phase 3 study that resolved sufficient uncertainty regarding a discrete range of outcomes that could be identified and evaluated. As such the valuation of the stock dividend and other current asset was determined to be a Level 3 valuation.

The warrant liability represents the liability for the warrants issued to the placement agent in connection with the Series A-1 Financings (Note 4) and to the lenders in connection with the Loan and Security Agreement (Note 11). The warrant liability is calculated using the Black-Scholes option pricing method. This method of valuation includes using inputs such as the fair value of the Company's various classes of preferred stock, historical volatility, the term of the warrant and risk free interest rates. The fair value of the Company's shares of common and preferred stock was estimated using PWERM, as described above. As such the valuation of the warrant liability was determined to be a Level 3 liability.

The other liability represents the liability to issue shares of Series A-6 to Nordic for services rendered in connection with the Company's Phase 3 clinical study of BA058-SC (Note 16). The liability is calculated based upon the number of shares earned by Nordic through the performance of clinical trial services multiplied by the estimated fair value of the Company's Series A-6 at each reporting date. The estimated fair value of the Series A-6 is determined using PWERM, as described above. As such the valuation of the warrant liability was determined to be a Level 3 liability.

The following table provides a roll forward of the fair value of the assets, including stock paid to Nordic in advance of services being rendered, where fair value is determined by Level 3 inputs:

Balance at January 1, 2011	\$	
Additions		3,482
Change in fair value		(103)
Balance at September 30, 2011	\$	3,379

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The following table provides a roll forward of the fair value of the liabilities, including stock dividends payable to Nordic, where fair value is determined by Level 3 inputs:

Balance at January 1, 2011	\$	
Additions		10,759
Change in fair value		161
Balance at September 30, 2011	\$	10,920

**8. Property and equipment**

Property and equipment consists of the following:

	Estimated useful life (in years)	December 31,	
		2011	2010
Furniture and fixtures	5	\$ 66	\$ 36
Computer equipment and software	3	254	238
Leasehold improvements	Shorter of useful life or remaining lease term	497	367
Laboratory equipment	5		
		817	641
Less accumulated depreciation and amortization		(650)	(610)
Net Property Plant and Equipment		\$ 167	\$ 31

In September 2010, the Company disposed of and subsequently sold laboratory equipment with an original cost of \$628 and accumulated depreciation of \$579 for proceeds of \$149. The Company assessed whether property and equipment assets were impaired during the year ended December 31, 2011 and noted no impairment indicators.

**9. Accrued expenses**

Accrued expenses consist of the following:

	December 31,	
	2011	2010
Research costs	\$ 2,276	\$ 1,913
Payroll and employee benefits	586	473
Professional fees	472	243
Vacation	79	79
Restructuring		63
Interest	177	
Total accrued expenses	\$ 3,590	\$ 2,771



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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)****10. Commitments**

In September 2010, the Company recorded restructuring charges of \$217 related to lease termination costs associated with vacating its laboratory space. The restructuring liability is included in accrued expenses in the balance sheet at December 31, 2010. All remaining payments were made by February 28, 2011.

The following table displays the restructuring activity and liability balances:

Balance at December 31, 2010	\$ 63
Payments	(63)
Balance at December 31, 2011	\$

On January 14, 2011, the Company signed a sublease agreement for office space in Cambridge, Massachusetts that expired on July 31, 2011. Monthly rental payments under this sublease were \$9 and the Company moved into the space in February 2011. On July 15, 2011, the Company entered into an operating lease agreement to remain in the same Cambridge, Massachusetts location. The term of the lease is August 1, 2011 through July 31, 2014. Monthly rental payments under the new lease are approximately \$15 for the first 12 months and approximately \$16 for the 24 months thereafter.

Rent expense was \$138 and \$535 for the years ended December 31, 2011 and 2010, respectively.

**11. Loan and security agreement**

On May 23, 2011, the Company entered into a loan and security agreement (the "Loan and Security Agreement") with Oxford Finance LLC and General Electric Capital Corporation (collectively, the "Lender") pursuant to which the Lender agreed to lend the Company up to \$25,000. Upon entering into the Loan and Security Agreement, the Company borrowed \$6,250 from the Lender ("Term Loan A") on May 23, 2011 and an additional \$6,250 from the Lender ("Term Loan B") on November 21, 2011. Under the terms of the Loan and Security Agreement, the Company may, in its sole discretion, subject to customary conditions, borrow from the Lender up to an additional \$12,500, at any time on or before May 22, 2012 ("Term Loan C," collectively with Term Loan A and Term Loan B, the "Term Loans"). The Company's obligations under the Loan and Security Agreement are secured by a first priority security interest in substantially all of the assets of the Company.

The Company is required to pay interest on the outstanding Term Loan A on a monthly basis through and including December 1, 2011. Beginning December 1, 2011 through the maturity of Term Loan A on November 22, 2014, the Company will be required to make payments of outstanding principal and interest on Term Loan A in 36 equal monthly installments. Interest is payable on Term Loan A at an annual interest rate of 10.16%. The Company is required to pay interest on the outstanding Term Loan B on a monthly basis through and including June 1, 2012. Beginning June 1, 2012, through the maturity of Term Loan B on November 24, 2014, the Company will be required to make payments of outstanding principal and interest on Term Loan B in 36 equal monthly installments. Interest is payable on Term Loan B at an annual interest rate of 10%. If the Company enters into Term Loan C, interest on the term loan will accrue at an annual fixed rate equal to greater of (i) 10% or (ii) the sum of (a) the three-year Treasury Rate as published by the Board of Governors of the Federal Reserve System in Federal Reserve Statistical Release H.15 entitled "Selected Interest Rates," plus (b) 9.19%. Payments due under Term Loan C, if borrowed, are interest only, payable monthly, in arrears, for six

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**Radius Health, Inc.**

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months following the funding of each term loan, and will consist of 36 and 30 payments of principal and interest, respectively, which are payable monthly, in arrears, and all unpaid principal and accrued and unpaid interest on Term Loan C would be due and payable 42 months after the funding of any each term loan.

Upon the last payment date of the amounts borrowed under the Loan and Security Agreement, whether on the maturity date of one of the Term Loans, on the date of any prepayment or on the date of acceleration in the event of a default, the Company will be required to pay the Lender a final payment fee equal to 3.5% of any of the Term Loans borrowed. In addition, if the Company repays all or a portion of the Term Loans prior to maturity, it will pay the Lender a prepayment fee of 3% of the total amount prepaid if the prepayment occurs prior to the first anniversary of the funding of the relevant Term Loan, 2% of the total amount prepaid if the prepayment occurs between the first and second anniversary of the funding of the relevant Term Loan, and 1% of the total amount prepaid if the prepayment occurs on or after the second anniversary of the funding of the relevant Term Loan.

Upon the occurrence of an event of default, including payment defaults, breaches of covenants, a material adverse change in the collateral, the Company's business, operations or condition (financial or otherwise) and certain levies, attachments and other restraints on the Company's business, the interest rate will be increased by five percentage points and all outstanding obligations will become immediately due and payable. The Loan and Security Agreement also contains a subjective acceleration clause, which provides the Lender the ability to demand repayment of the loan early upon a material adverse change, as defined. The portion of the Term Loan A and Term Loan B that is not due within 12 months of December 31, 2011 has been classified as long-term, as the Company believes a material adverse change is remote.

In connection with each Term Loan, the Company issued to the Lender a Warrant to purchase 3,070 shares of the Company's Series A-1 Preferred Stock (the "Warrant"). The Warrants are exercisable, in whole or in part, immediately, and has a per share exercise price of \$81.42 and may be exercised on a cashless basis. The Warrants each have a term of 10 years. The exercise price may be adjusted in the event the Company issues shares of the Series A-1 at a price lower than \$81.42 per share. The Warrants are classified as a liability in the Company's balance sheet and will be remeasured at their estimated fair value at each reporting period. The changes in fair value are recorded as other income (expense) in the Statement of Operations.

The initial fair value of the Warrant issued in connection with Term Loan A was \$183 and was recorded as a discount to Term Loan A. The fair value of the warrant at December 31, 2011 was \$173. The Company also paid the Lender a facility fee of \$250 and reimbursed the Lender certain costs associated with the Loan and Security Agreement of \$117, both of which were also recorded as a discount to Term Loan A. The discount is being amortized to interest expense over the 42 month period that Term Loan A is outstanding using the effective interest method.

The initial fair value of the Warrant issued in connection with Term Loan B was \$178 and was recorded as a discount to Term Loan B. The fair value of the warrant at December 31, 2011 was \$176. The Company also reimbursed the Lender certain costs associated with Term Loan B of \$18, which was also recorded as a discount to Term Loan B. The discount is being amortized to interest expense over the 42 month period that Term Loan B is outstanding using the effective interest method.

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Future principal payments under the Loan and Security Agreement at December 31, 2011, are as follows:

	<b>Principal payments</b>
2012	\$ 3,188
2013	4,125
2014	5,031
Total	\$ 12,344
Current portion of net payable	3,188
Discount on current portion of note payable	(308)
Current portion of net payable, net of discount	\$ 2,880
Discount on noncurrent portion of note payable	(270)
Note payable, net of current portion and discount	\$ 8,886

**12. Convertible preferred stock and redeemable convertible preferred stock****Redeemable Convertible Preferred Stock**

The rights, preferences, and privileges of the Series A Preferred Stock, Series B Preferred Stock, and Series C Preferred Stock (collectively, the "Old Preferred Stock") which were outstanding as of December 31, 2010 are as follows:

**Conversion**

Each Preferred stockholder has the right, at their option at any time, to convert any such shares of Old Preferred Stock into such number of fully paid shares as is determined by dividing the original purchase price by the conversion price. The conversion price of the Old Preferred Stock as of December 31, 2009 and 2010 was \$8.14 and \$15.00 per share for Series C Preferred Stock and for Series B and A Preferred Stock, respectively, which in each case represents a 1 for 1 conversion ratio to common stock.

**Redemption**

At the request of holders of at least 68% in voting power of the shares of Series B and Series C Preferred Stock then outstanding, made at any time on or after the fourth anniversary of the original Series C Preferred Stock issuance date, the Company will be required to redeem all of the outstanding shares of Series B and Series C Preferred Stock at a redemption price equal to the original Series B or Series C Preferred Stock purchase price of \$15.00 and \$8.14, respectively, plus any declared or accrued but unpaid dividends. Dividends accrue at 8% per annum, compounding annually, commencing on the date of issuance of the Series B and C Preferred Stock, respectively.

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If the Company, at any time, breaches any of its representations, warranties, covenants, and/or agreements set forth in the Stockholders' Agreements between the Company and the Series B and Series C Preferred Stockholders specified in those agreements, holders of at least 68% of the voting power of the Series B and Series C Preferred Stock may elect, at their sole discretion, if the breach is not cured within 60 days, to accelerate the maturity of the rights of all the Series B and Series C Preferred Stockholders and cause the immediate redemption of all the shares of Series B and Series C Preferred Stock.

The Series A Preferred Stock is not redeemable.

**Dividends**

Following payment in full of required dividends to the holders of Series C Stock and Series B Stock, Series A Preferred Stockholders are entitled to receive dividends on shares of Series A Preferred Stock, when, if and as declared by the board of directors at a rate to be determined by the board of directors.

Following payment in full of required dividends to the holders of Series C Stock, Series B Preferred Stockholders are entitled to receive dividends at the rate of 8% per annum, compounding annually, which will accrue on a quarterly basis commencing on the date of issuance of the Series B Preferred Stock. Dividends will be payable, as accrued, upon liquidation, event of sale, redemption date, and conversion to common stock (whether declared or not) as specified in the Stockholders' Agreement. The holders of shares of Series B Preferred Stock are also entitled to dividends declared or paid on any shares of common stock.

Series C Preferred Stockholders are entitled to receive dividends at the rate of 8% per annum, compounding annually, which will accrue on a quarterly basis commencing on the date of issuance of the Series C Preferred Stock. Dividends will be payable, as accrued, upon liquidation, event of sale, redemption date, and conversion to common stock as (whether declared or not) specified in the Stockholders' Agreement. The holders of shares of Series C Preferred Stock are also entitled to dividends declared or paid on any shares of common stock.

**Voting**

The Old Preferred Stockholders are entitled to vote together with the holders of the common stock as one class on an as if converted basis.

In addition, the Series B and Series C Preferred Stockholders, voting as a separate class (Senior Preferred Stockholders), have the exclusive right to elect six members of the board of directors.

**Liquidation**

The Series C Preferred Stock ranks senior and prior to the Series B Preferred Stock, Series A Preferred Stock, and the Company's common stock. The Series B Preferred Stock ranks senior and prior to the Series A Preferred Stock and the Company's common stock, and junior to the Series C Preferred Stock. The Series A Preferred Stock ranks senior and prior to the Company's common stock.

In the event of a liquidation, dissolution, or winding-up of the Company, the holders of the Series C Preferred Stock are entitled to be paid first out of the assets available for distribution, before any payment shall be made to the Series B and Series A Preferred Stockholders. Payment to the Series C Preferred Stockholders shall consist of the original issuance price of \$8.14, plus all accrued but unpaid

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dividends and interest. After the distribution to the Series C Preferred Stockholders, the holders of Series B Preferred Stock, and then Series A Preferred Stock, will be entitled to receive an amount per share equal to the original purchase price per share of \$15.00, plus any declared and unpaid dividends. If the assets of the Company are insufficient to pay the full preferential amounts to the Series C Preferred Stockholders, the assets will be distributed ratably among the Series C Preferred Stockholders in proportion to their aggregate liquidation preference amounts. If the assets of the Company are insufficient to pay the full preferential amounts to the Series B and Series A Preferred Stockholders, after payment to the Series C Preferred Stockholders, the Series B Stockholders shall first share ratably in any remaining distribution of assets according to the respective amounts which would be repayable to them in respect of the shares of Series B Preferred Stock held upon such distribution. The Series A Preferred Stockholders would only share in the distribution of assets once the Series B Preferred Stockholders have received their full preferential amounts.

In the event of, and simultaneously with, the closing of an Event of Sale of the Company (as defined in the Stockholders' Agreement), the Company shall redeem all of the shares of Series A, Series B, and Series C Preferred Stock then outstanding at the Special Liquidation Price. If the Event of Sale involves consideration other than cash, the Special Liquidation Price may be paid with such consideration having a value equal to the Special Liquidation Price. The Special Liquidation Price shall be equal to an amount per share, which would be received by each Old Preferred Stockholder if, in connection with the Event of Sale, all the consideration paid in exchange for the assets or the shares of capital stock of the Company was actually paid to and received by the Company, and the Company was immediately liquidated thereafter and its assets distributed pursuant to the liquidation terms above.

**Convertible Preferred Stock**

The rights, preferences, and privileges of the Series A-1, Series A-2, Series A-3, Series A-4, Series A-5 and Series A-6 Preferred Stock (collectively, the "New Preferred Stock"), which were authorized as part of the recapitalization and financing, and in connection with the Merger, are as follows:

**Conversion**

Each holder of New Preferred Stock has the right, at their option at any time, to convert any such shares of New Preferred Stock into such number of fully paid shares of Common Stock as is determined by dividing the original purchase price of \$81.42 by the conversion price ("Optional Conversion"). The conversion price of the New Preferred Stock as of December 31, 2011 was \$8.142 per share (the "Conversion Price"), which represents a conversion ratio of one share of New Preferred Stock into ten shares of Common Stock. Upon the Optional Conversion, the holder of the converted New Preferred Stock is entitled to payment of all accrued, whether or not declared, but unpaid dividend in shares of the Common Stock of the Company at the then effective conversion price of shares of New Preferred Stock.

In the event an investor does not timely and completely fulfill their future funding obligations as defined in the Purchase Agreement (as described in Note 4) (i) the shares of the New Preferred Stock then held by the investor automatically convert into shares of the Company's common stock at a rate of one share of common stock for every ten shares of New Preferred Stock to be converted and (ii) the Company has the right to repurchase all of the shares of Common Stock issued upon conversion at a purchase price equal to the par value of the repurchased shares of Common Stock ("Subsequent Closing Adjustment"). Upon a Subsequent Closing Adjustment, the holder of the converted New

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Preferred Stock is entitled to payment of any declared or accrued, but unpaid, dividends in shares of the Common Stock of the Company.

Each share of the New Preferred Stock is automatically convertible into fully paid and non-assessable shares of Common Stock at the applicable Conversion Price then in effect upon (i) a vote of the holders of at least 70% of the outstanding shares of Series A-1, Series A-2 and Series A-3 to convert all shares of New Preferred Stock or (ii) the Common Stock becoming listed for trading on a national stock exchange ("Special Mandatory Conversion"). Upon a Special Mandatory Conversion, all accrued, whether or not declared, but unpaid dividends shall be paid in cash or shares at the discretion of the Company's board of directors, at the then effective conversion price of shares of New Preferred Stock.

**Redemption**

The shares of New Preferred Stock are not currently redeemable.

**Dividends**

Holders of shares of Series A-1 are entitled to receive dividends at a rate of 8% per annum, compounding annually, which accrue on a quarterly basis commencing on the date of issuance of the shares of Series A-1. Dividends are payable, as accrued, upon liquidation, event of sale, and conversion to common stock as described above. The holders of shares of Series A-1 are also entitled to dividends declared or paid on any shares of Common Stock.

Following payment in full of required dividends to the holders of Series A-1, holders of Series A-2 are entitled to receive dividends at a rate of 8% per annum, compounding annually, which accrue on a quarterly basis commencing on the date of issuance of the shares of Series A-2. Dividends are payable, as accrued, upon liquidation, event of sale, and conversion to common stock as described above. The holders of shares of Series A-2 are also entitled to dividends declared or paid on any shares of Common Stock.

Following payment in full of required dividends to the holders of Series A-1 and Series A-2, holders of Series A-3 are entitled to receive dividends at a rate of 8% per annum, compounding annually, which accrue on a quarterly basis commencing on the date of issuance of the shares of Series A-3. Holders of Series A-5 are entitled to receive the Series A-5 Accruing Dividend paid in shares of Series A-6 as described in Note 14. Holders of shares of Series A-6 are entitled to receive dividends on shares of Series A-6, when and if declared by the board of directors at a rate to be determined by the board of directors. Dividends are payable, as accrued, upon liquidation, event of sale and conversion to Common Stock as described above. The holders of shares of Series A-3, A-5 and A-6 are also entitled to dividends declared or paid on any shares of Common Stock.

Following payment in full of required dividends to the holders of Series A-1, Series A-2, Series A-3, and Series A-5, holders of Series A-4 are entitled to receive dividends on shares of Series A-4, when and if declared by the board of directors at a rate to be determined by the board of directors. Dividends are payable, as accrued, upon liquidation, event of sale, and conversion to Common Stock as described above. The holders of shares of Series A-4 are also entitled to dividends declared or paid on any shares of Common Stock.

Dividends on the New Preferred Stock are payable, at the sole discretion of the board of directors, in cash or in shares of the Company's common stock, when and if declared by the board of directors, upon liquidation or upon an event of sale at the current market price of shares of common stock.

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Upon optional conversion, dividends are payable in shares of the common stock at the then effective conversion price of shares of Preferred Stock.

The Company has accrued dividends of \$1,968, \$4,000 and \$579 on Series A-1, A-2 and A-3, respectively, as of December 31, 2011.

**Voting**

The New Preferred Stockholders are entitled to vote together with the holders of the Common Stock as one class on an as-if converted basis.

In addition, as long as the shares of Series A-1 are outstanding, the holders of Series A-1, voting as a separate class, have the right to elect two members of the Company's board of directors.

**Liquidation**

The shares of Series A-1 rank senior to all other classes of New Preferred Stock. Series A-2 ranks junior to Series A-1 and senior to Series A-3, Series A-4, Series A-5 and Series A-6. Series A-3, Series A-5 and Series A-6 rank equally but junior to Series A-1 and Series A-2 and senior to Series A-4. Series A-4 ranks senior to the Company's Common Stock.

In the event of a liquidation, dissolution, or winding-up of the Company, the holders of the Series A-1 are entitled to be paid first out of the assets available for distribution, before any payment is made to the Series A-2, Series A-3, Series A-4, Series A-5 and Series A-6. Payment to the holders of Series A-1 shall consist of the original issuance price of \$81.42, plus all accrued but unpaid dividends. After the distribution to the holders Series A-1, the holders of Series A-2, will be entitled to receive an amount per share equal to the original purchase price per share of \$81.42, plus any accrued but unpaid dividends. After the distribution to the holders Series A-1 and Series A-2, the holders of Series A-3, Series A-5 and Series A-6, will be entitled to receive an amount per share equal to the original purchase price per share of \$81.42, plus any accrued but unpaid or declared and unpaid dividends, as appropriate. After the distribution to the holders Series A-1, Series A-2, Series A-3, Series A-5 and Series A-6, the holders of Series A-4 will be entitled to receive an amount per share equal to the original purchase price per share of \$81.42, plus any declared and unpaid dividends. If the assets of the Company are insufficient to pay the full preferential amounts to the holders of Series A-1, the assets will be distributed ratably among the holders of Series A-1 in proportion to their aggregate liquidation preference amounts. If the assets of the Company are insufficient to pay the full preferential amounts to the holders of Series A-2, the assets will be distributed ratably among the holders of Series A-2 in proportion to their aggregate liquidation preference amounts. If the assets of the Company are insufficient to pay the full preferential amounts to the holders of Series A-3, Series A-5 and Series A-6, the assets will be distributed ratably among the holders of Series A-3, Series A-5 and Series A-6 in proportion to their aggregate liquidation preference amounts. If the assets of the Company are insufficient to pay the full preferential amounts to the holders of Series A-4, the assets will be distributed ratably among the holders of Series A-4 in proportion to their aggregate liquidation preference amounts. After all liquidation preference payments have been made to the holders of the New Preferred Stock, the holders of the New Preferred Stock shall participate in the distribution of the remaining assets with the holders of the Company's Common Stock on an as-if converted basis.

In the event of, and simultaneously with, the closing of an event of sale of the Company (as defined in the Company's Amended Articles of Incorporation), the Company shall redeem all of the shares of

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Series A-1, Series A-2, Series A-3, Series A-4, Series A-5 and Series A-6 then outstanding at the Special Liquidation Price, as defined. If the event of sale involves consideration other than cash, the Special Liquidation Price may be paid with such consideration having a value equal to the Special Liquidation Price. The Special Liquidation Price shall be equal to an amount per share, which would be received by each New Preferred Stockholder if, in connection with the event of sale, all the consideration paid in exchange for the assets or the shares of capital stock of the Company was actually paid to and received by the Company, and the Company was immediately liquidated thereafter and its assets distributed pursuant to the liquidation terms above.

**Registration rights**

In accordance with the Amended and Restated Stockholders Agreement (the "Stockholders Agreement"), the Company was required to file a registration statement with the Securities and Exchange Commission (the "SEC") covering the registration of at least 85% of the outstanding shares of the New Preferred Stock within 60 days of the closing of the Merger. Pursuant to the terms of the Stockholders Agreement, if the registration statement was not filed within 60 days of the closing of the Merger or if the registration statement was not been declared effective by the SEC at the later of (i) 90 days after the closing date of the Merger or (ii) in the event the SEC reviews the registration statement and has comments, 180 days after the closing of the Merger, the Company would have been required to pay liquidated damages on a monthly basis equal to 1% of the aggregate purchase price paid by the holders of the New Preferred Stock. The total amount of liquidated damages was limited to 16% of the aggregate purchase price paid by the holders of the New Preferred Stock. The Company filed its registration statement and was declared effective and therefore was not required to pay these damages.

**13. Stockholders' deficit****Common stock**

The Company has reserved the following number of shares of common stock at December 31, 2011 and 2010:

	<b>December 31,</b>	
	<b>2011</b>	<b>2010</b>
	<b>(In thousands)</b>	
Conversion of Series A Preferred Stock		63
Conversion of Series B Preferred Stock		1,600
Conversion of Series C Preferred Stock		10,147
Conversion of Series A-1 Preferred Stock	10,000	
Conversion of Series A-2 Preferred Stock	9,832	
Conversion of Series A-3 Preferred Stock	1,422	
Conversion of Series A-4 Preferred Stock	40	
Conversion of Series A-5 Preferred Stock	70	
Conversion of Series A-6 Preferred Stock	8,000	
Stock options and Warrants	19,128	1,765
<b>Total</b>	<b>48,492</b>	<b>13,575</b>

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)****Accumulated other comprehensive income (loss)**

All components of comprehensive income (loss) are required to be disclosed in the condensed financial statements. Comprehensive income (loss) is defined as the change in equity of a business enterprise during a period from transactions, and other events and circumstances from non-owner sources and consists of net loss and changes in unrealized gains and losses on available-for-sale securities. The components of Accumulated Other Comprehensive Income ("AOCI") are as follows for the years ended December 31, 2011, 2010 and 2009:

	Available-for- sale securities adjustment	Accumulated other comprehensive loss
Balance as of December 31, 2009	\$ 15	\$ 15
Unrealized (loss) gain from available-for-sale securities	(18)	(18)
Balance as of December 31, 2010	\$ (3)	\$ (3)
Unrealized (loss) gain from available-for-sale securities	8	8
Balance as of December 31, 2011	\$ 5	\$ 5

**14. Stock-based compensation**

The company recognizes compensation cost of employee stock-based awards using the straight-line method over the requisite service period of the award, which is typically the vesting period, based on their fair values as of the date of grant.

The Company has the following stock-based compensation plans as of December 31, 2011 under which equity awards have been granted to employees, directors and consultants:

- > 2003 Long-Term Incentive Plan; and
- > 2011 Equity Incentive Plan.

The 2011 Equity Incentive Plan replaced the 2003 Long-Term Incentive Plan when the board of directors approved the new plan on November 7, 2011. As of December 31, 2011, an aggregate of approximately 4,671,000 shares have been authorized for issuance under the Company's stock-based compensation plans, with approximately 3,950,000 options outstanding. The number of common shares available for granting of future awards to employees and directors under these plans was 250,000 at December 31, 2011.

**2003 Long-Term Incentive Plan**

The Company's 2003 Long-Term Incentive Plan (the "Incentive Plan") provides for the granting of incentive stock options and nonqualified options to key employees, directors and consultants of the Company. The exercise price of the incentive stock options, as determined by the board of directors, must be at least 100% (110% in the case of incentive stock options granted to a stockholder owning in excess of 10% of the Company's common stock) of the common stock fair value as of the date of the grant. The provisions of the Incentive Plan limit the exercise of incentive stock options, but in no case may the exercise period extend beyond ten years from the date of grant (five years in the case of incentive stock options granted to a stockholder owning in excess of 10% of the Company's common stock). Stock options generally vest over a four-year period. Certain options contain explicit

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performance conditions. The Company authorized approximately 2,016,000 shares of common stock for issuance under the Incentive Plan.

**2011 Equity Incentive Plan**

The Company's 2011 Equity Incentive Plan (the "Equity Plan") provides for the granting of incentive stock options and nonqualified options to key employees, directors and consultants of the Company. The exercise price of the incentive stock options, as determined by the board of directors, must be at least 100% (110% in the case of incentive stock options granted to a stockholder owning in excess of 10% of the Company's common stock) of the common stock fair value as of the date of the grant. The provisions of the Incentive Plan limit the exercise of incentive stock options, but in no case may the exercise period extend beyond ten years from the date of grant (five years in the case of incentive stock options granted to a stockholder owning in excess of 10% of the Company's common stock). Stock options generally vest over a four-year period. Certain options contain explicit performance conditions. The Company has authorized approximately 2,655,000 shares of common stock for issuance under the Equity Plan. In addition, the shares remaining available for issuance under the Incentive Plan were assumed as shares authorized under the Equity Plan.

A summary of stock option activity for the year ended December 31, 2011 is as follows:

	Shares	Weighted-average exercise price (in dollars per share)	Weighted-average contractual life (in years)	Aggregate intrinsic value
(In thousands, except per share amounts)				
Options outstanding at December 31, 2010	1,462	\$ 1.20		
Granted	2,831	3.69		
Exercised	(220)	0.93		
Cancelled	(123)	2.71		
Options outstanding at December 31, 2011	3,950	\$ 2.94	8.55	\$ 3,744
Options exercisable at December 31, 2011	1,077	\$ 1.31	5.09	\$ 2,784
Options vested or expected to vest at December 31, 2011	3,843	\$ 2.94	8.55	\$ 3,708

The weighted-average grant-date fair value of options granted during 2011, 2010 and 2009 was \$2.07, \$0.60 and \$0.75, respectively. The total grant-date fair value of stock options that vested during 2011 was approximately \$384. The aggregate intrinsic value of options exercised (i.e., the difference between the market price at exercise and the price paid by employees to exercise the option) during 2011 was approximately \$229.

During the years ended 2011, 2010 and 2009, the Company's board of directors granted approximately 317,000, 258,000 and 2,000 stock options, respectively, to Board members of the Company. The Company records stock-based compensation expense for such options using the straight-line method over the requisite service period of the award, which is typically the vesting period, based on their fair values as of the date of grant. During the years ended December 31, 2011,

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2010 and 2009, the Company recorded approximately \$131, \$34 and \$25 of stock-based compensation expense related to non-employee awards, respectively.

**Valuation and expense information**

The following table summarizes stock-based compensation expense by financial statement line:

	December 31, 2011	Years ended December 31, 2010	December 31, 2009
Research and development	\$ 118	\$ 37	\$ 143
General and administrative	186	97	(19)
Share-based compensation expense included in operating expenses	\$ 304	\$ 134	\$ 125

As of December 31, 2011, there was approximately \$5,060 of total unrecognized compensation expense related to unvested employee share-based compensation arrangements, which is expected to be recognized over a weighted-average period of approximately 4.0 years.

The Company used the Black-Scholes option valuation model to estimate the grant date fair value of its employee stock options. The weighted-average assumptions used in the Black-Scholes option valuation model and the resulting weighted-average estimated grant date fair values of our employee stock options were as follows for the years ended December 31, 2011, 2010, and 2009:

	Year ended December 31,		
	2011	2010	2009
Expected term (years)	6.25	6.25	6.25
Volatility	60%	58%	57 59%
Expected dividend yield	0%	0%	0%
Risk-free interest rates	1.35%	1.92%	2.6 2.7%

The expected term of the stock options granted represents the period of time that options granted are expected to be outstanding. For options granted prior to January 1, 2008, the expected term was calculated using the "simplified" method as prescribed by the SEC's Staff Accounting Bulletin No. 107, *Share-Based Payment*. For options granted after January 1, 2008, we calculated the expected term using similar assumptions. The expected volatility is a measure of the amount by our stock price is expected to fluctuate during the term of the options granted. We determine the expected volatility based on a review of the historical volatility of similar publicly held companies in the biotechnology field over a period commensurate with the options expected term. We have never declared or paid any cash dividends on our common stock and we do not expect to do so in the foreseeable future. Accordingly, we use an expected dividend yield of zero. The risk-free interest rate is the implied yield available on U.S. Treasury issues with a remaining life consistent with the option's expected term on the date of grant.

The Company has historically granted stock options at exercise prices not less than the fair value of its common stock as determined by its board of directors, with input from management. The Company's board of directors has historically determined, with input from management, the estimated fair value

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of the Company's common stock on the date of grant based on a number of objective and subjective factors, including:

- > the prices at which the Company sold shares of convertible preferred stock;
- > the superior rights and preferences of securities senior to the Company's common stock at the time of each grant;
- > the likelihood of achieving a liquidity event such as a public offering or sale of the Company;
- > the Company's historical operating and financial performance and the status of its research and product development efforts; and
- > achievement of enterprise milestones, including entering into collaboration and license agreements.

The Company's board of directors also considered valuations provided by management in determining the fair value of its common stock. Such valuations were prepared as of December 3, 2008, December 2, 2009, October 1, 2010, June 30, 2011, September 30, 2011 and November 28, 2011 and valued common stock at \$1.05, \$1.20, \$1.35, \$2.96, \$3.22 and \$3.89 per share, respectively. The valuations have been used to estimate the fair value of common stock as of each option grant date listed and in calculating stock-based compensation expense. The Company's board of directors has consistently used the most recent valuation provided by management for determining the fair value of common stock unless a specific event occurs that necessitates an interim valuation.

The valuations were based on the guidance from the *Valuation of Privately-Held-Company Equity Securities Issued as Compensation* that was developed by staff of the American Institute of Certified Public Accountants and a task force comprising representatives from the appraisal, preparer, public accounting, venture capital, and academic communities. The option-pricing method was selected to value Radius' common stock based on the Company's stage of development and the degree of uncertainty surrounding the future success of clinical trials for the Company's product candidates. For the valuations prepared as of December 3, 2008, December 2, 2009 and October 1, 2010, the option-pricing method treats common stock and preferred stock as call options on the enterprise's value, with exercise prices based on the liquidation preference of the preferred stock. Under this method, the common stock has value only if the funds available for distribution to stockholders exceed the value of the liquidation preference at the time of a liquidity event (for example, merger or sale), assuming the enterprise has funds available to make a liquidation preference meaningful and collectible by the shareholders.

In the model, the exercise price is based on a comparison with the enterprise value rather than, as in the case of a "regular" call option, a comparison with a per-share stock price. Thus, common stock is considered to be a call option with a claim on the enterprise at an exercise price equal to the remaining value immediately after the preferred stock is liquidated. The Company used the Black-Scholes model to price the call option. Under the option-pricing method, the Company had to consider the various terms of the stockholder agreements including the level of seniority among the securities, dividend policy, conversion ratios, and cash allocations upon liquidation of the enterprise.

For the valuations prepared as of June 30, 2011, September 30, 2011 and November 28, 2011, the Company utilized the probability-weighted expected return method, or PWERM, as outlined in the AICPA Technical Practice Aid, *Valuation of Privately-Held-Company Equity Securities Issued as Compensation*, or Practice Aid, which considers the value of preferred and common stock based upon the probability-weighted present value of expected future net cash flows, considering each of the

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possible future events, as well as the rights and preferences of each share class. PWERM is complex as it requires numerous assumptions relating to potential future outcomes of equity, hence, the use of this method can be applied: (i) when possible future outcomes can be predicted with reasonable certainty; and (ii) when there is a complex capital structure (i.e., several classes of preferred and common stock). The Company utilized the fair value of common stock derived from the September 30, 2011 valuation for purposes of the November 7, 2011 option grants and the fair value of common stock derived from the November 28, 2011 valuation for purposes of the December 15, 2011 option grants. The Company concluded, for purposes of the November 7, 2011 grants, that there were no significant changes to the assumptions used in the PWERM model between September 30, 2011 and November 7, 2011 that would impact the fair value of common stock. The Company concluded, for purposes of the December 15, 2011 grants, that there were no significant changes to the assumptions used in the PWERM model between November 28, 2011 and December 15, 2011 that would impact the fair value of common stock. The Company also used this methodology to estimate the fair value of preferred stock, which was used in the preferred stock extinguishment (Note 4), and to determine the fair value of shares of series A-6 convertible preferred stock due to Nordic (Note 16).

**15. License agreements**

On September 27, 2005, the Company entered into a license agreement (the "Ipsen Agreement"), as amended, with SCRAS S.A.S, a French corporation on behalf of itself and its affiliates (collectively, "Ipsen"). Under the Ipsen Agreement, Ipsen granted to the Company an exclusive right and license under certain Ipsen compound technology and related patents to research, develop, manufacture and commercialize certain compounds and related products in all countries, except Japan and (subject to certain co-marketing and co-promotion rights retained by Ipsen) France. With respect to France, if Ipsen exercises its co-marketing and co-promotion rights then Ipsen may elect to receive a percentage of the aggregate revenue from the sale of products by both parties in France (subject to a mid-double digit percentage cap) and Ipsen shall bear a corresponding percentage of the costs and expenses incurred by both parties with respect to such marketing and promotion efforts in France; Ipsen shall also pay Radius a mid-single digit royalty on Ipsen's allocable portion of aggregate revenue from the sale of products by both parties in France. BA058 (the Company's bone growth drug) is subject to the Ipsen Agreement. Ipsen also granted the Company an exclusive right and license under the Ipsen compound technology and related patents to make and have made compounds or product in Japan. Ipsen also granted the Company an exclusive right and license under certain Ipsen formulation technology and related patents solely for purposes of enabling the Company to develop, manufacture and commercialize compounds and products covered by the compound technology license in all countries, except Japan and (subject to certain co-marketing and pro-promotion rights retained by Ipsen) France. In consideration for these licenses, the Company made a nonrefundable, non-creditable payment of \$250 to Ipsen, which was expensed during 2005. The Ipsen Agreement provides for further payments in the range of €10,000 to €36,000 (\$12,973 to \$46,702) to Ipsen upon the achievement of certain development and commercialization milestones specified in the Ipsen Agreement, and for the payment of fixed 5% royalties on net sales of any product by the Company or our sublicensees on a country-by-country basis until the later of the last to expire of the licensed patents or for a period of 10 years after the first commercial sale in such country of any product that includes the compound licensed from Ipsen or any analog thereof.

If the Company sublicenses the rights licensed from Ipsen, then the Company will also be required to pay Ipsen a percentage of certain payments received from such sublicensee (in lieu of milestone

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payments not achieved at the time of such sublicense). The applicable percentage is in the low double digit range. In addition, if the Company or its affiliates sublicensees commercialize a product that includes a compound discovered by it based on or derived from confidential Ipsen know-how, it will be obligated to pay to Ipsen a fixed low single digit royalty on net sales of such product on a country-by-country basis until the later of the last to expire of its patents that cover such product or for a period of 10 years after the first commercial sale of such product in such country. In connection with the Ipsen Agreement, the Company recorded approximately \$1,007, \$1,227 and \$1,117 in research and developments costs in the years ended December 31, 2011, 2010 and 2009, respectively. The costs were incurred by Ipsen and charged to the Company for the manufacture of the clinical supply of the licensed compound.

On May 11, 2011, the Company entered into a second amendment to the Ipsen Agreement pursuant to which Ipsen agreed to accept shares of Series A-1 in lieu of cash as consideration for a milestone payment due to Ipsen following the initiation of the first BA058 Phase 3 study. The number of shares of Series A-1 to be issued to Ipsen was determined based upon the U.S. dollar exchange rate for the euro two business days prior to closing. On May 17, 2011, the Company issued 17,326 shares of Series A-1 to Ipsen to settle the obligation. Accordingly, the Company recorded research and development expense of \$1,411 during the three-month period ended June 30, 2011. The expense represents the fair value of the Series A-1 shares of \$81.42 per share.

**16. Research agreements**

The Company entered into a letter of intent with Nordic (the "Letter of Intent") on September 3, 2010, pursuant to which it funded preparatory work by Nordic in respect of a Phase 3 clinical study of BA058-SC. The Letter of Intent was extended on December 15, 2010 and on January 31, 2011. On March 29, 2011, the Company and Nordic entered into a Clinical Trial Services Agreement, a Work Statement NB-1 (the "Work Statement") under such Clinical Trial Services Agreement and a related Stock Issuance Agreement. Pursuant to the Work Statement, Nordic is managing the Phase 3 clinical study (the "Clinical Study") of BA058-SC and Nordic will be compensated for such services in a combination of cash and shares of Series A-6.

Pursuant to the Work Statement, the Company is required to make certain per patient payments denominated in both euros and U.S. dollars for each patient enrolled in the Clinical Study followed by monthly payments for the duration of the study and final payments in two equal euro-denominated installments and two equal U.S. Dollar-denominated installments. Changes to the Clinical Study schedule may alter the timing, but not the aggregate amounts, of the payments. The Work Statement as amended on December 9, 2011, provides for approximately €35,819 (\$46,468) of euro-denominated payments and approximately \$5,289 of U.S. Dollar-denominated payments over the course of the Clinical Study.

Pursuant to the Stock Issuance Agreement, Nordic agreed to purchase the equivalent of €372 of Series A-5 Preferred Stock at \$8.142 per share. 64,430 shares of Series A-5 were issued to Nordic on May 17, 2011, which generated proceeds of \$525 to the Former Operating Company. These shares were exchanged in the Merger for an aggregate of 6,443 shares of Series A-5 through a reverse stock split.

The Stock Issuance Agreement provides that Nordic is entitled to receive quarterly stock dividends, payable in shares of Series A-6, or shares of common stock if the Company's preferred stock has been automatically converted in accordance with its amended certificate of incorporation, having an

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

aggregate value of up to €36,815 (\$47,760), or the Series A-5 Accruing Dividend. This right to receive the Series A-5 Accruing Dividend is non-transferrable and will remain with Nordic in the event it sells the shares of Series A-5 or in the event the shares of Series A-5 are converted into common stock in accordance with the Company's amended certificate of incorporation.

The Series A-5 Accruing Dividend is determined based upon the estimated period that will be required to complete the Clinical Study. On the last Business Day of each calendar quarter (each, an "Accrual Date"), beginning with the quarter ended June 30, 2011, the Company has a liability to issue shares of Series A-6 to Nordic that is referred to as the Applicable Quarterly Amount and is equal to (A) €36,815 minus the aggregate value of any prior Series A-5 Accruing Dividend accrued divided by (B) the number of calendar quarters it will take to complete the Clinical Study. To calculate the aggregate number of shares of Series A-6 due to Nordic in each calendar quarter, the Company converts the portion of €36,815 to accrue in such calendar quarter into U.S. dollars using the simple average of the exchange rate for buying U.S. dollars with euros for all Mondays in such calendar quarter. The Company then calculates the aggregate number of shares of Series A-6 to accrue in such calendar quarter by dividing the U.S. dollar equivalent of the Applicable Quarterly Amount, by the greater of (i) the fair market value as of the applicable Accrual Date, and (ii) \$8.142, and rounding down the resulting quotient to the nearest whole number. Such shares due to Nordic will be issued when declared or paid by the Company's board of directors, who are required to do so upon Nordic's request, or upon an event of sale. As of December 31, 2011, 167,518 shares of Series A-6 are due to Nordic.

Prior to the issuance of shares of Series A-6 to Nordic, the liability to issue shares of Series A-6 will be accounted for as a liability in the Company's Balance Sheet. As of December 31, 2011, the fair value of the liability was \$10,470 based upon the fair value of the Series A-6 as determined using PWERM (Note 7). Changes in the value from the date of accrual to the date of issuance of the shares are recorded as a gain or loss in other income (expense) in the Statement of Operations.

The Company recognizes research and development expense for the amounts due to Nordic under the Work Statement ratably over the estimated per patient treatment period beginning upon enrollment in the Clinical Study, or a twenty-month period. The Company recorded \$10,955 of research and development expense in the year ended December 31, 2011 reflecting costs incurred for preparatory and other start-up costs to initiate the Clinical Study in April 2011. The Company recorded an additional \$5,121 of research and development expense in the year ended December 31, 2011 for per patient costs incurred for patients that had enrolled in the Clinical Study as of December 31, 2011. As of December 31, 2011, in addition to the \$10,470 liability that is reflected in other liabilities on the Balance Sheet that will be settled in shares of Series A-6, as noted above, the Company has an asset resulting from payments to Nordic of approximately \$5,166 that is included in prepaid expenses on the Balance Sheet.

The Company is also responsible for certain pass through costs in connection with the Clinical Study. Pass through costs are expensed as incurred or upon delivery. The Company recognized research and development expense of \$4,987 for pass through costs in the year ended December 31, 2011.

**17. Income taxes**

As of December 31, 2011 the Company had federal and state net operating loss (NOL) carryforwards of approximately \$129,268 and \$111,417, respectively, which may be used to offset future taxable income. The Company also had federal and state tax credits of \$2,822 and \$235, respectively, to offset

Table of Contents**Radius Health, Inc.****NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

future tax liabilities. The NOL and tax credit carryforwards will expire at various dates through 2031, and are subject to review and possible adjustment by federal and state tax authorities. The Internal Revenue Code contains provision that may limit the NOL and tax credit carryforwards available to be used in any given year in the event of certain changes in the ownership interests of significant stockholders under Section 382 of the Internal Revenue Code.

A reconciliation of income taxes computed using the U.S. federal statutory rate to that reflected in operations follows:

	Year ended December 31,	
	2011	2010
Income tax benefit using U.S. federal statutory rate	\$ (14,509)	\$ (4,974)
State income taxes, net of federal benefit	(1,854)	411
Stock-based compensation	49	34
Research and development tax credits	(385)	(320)
Change in the valuation allowance	17,041	4,838
Permanent items	91	3
Other	(433)	8
	\$	\$

The Company is subject to Massachusetts net worth taxes, not based on income, which is largely offset by allowable tax credits and recorded as a component of operating expenses.

The principal components of the Company's deferred tax assets are as follows:

	December 31,	
	2011	2010
Deferred tax assets:		
Net operating loss carryforwards	\$ 49,838	\$ 33,008
Capitalized research and development	1,431	1,789
Research and development credits	2,977	2,593
Depreciation and amortization	128	126
Other	331	148
Gross deferred tax assets	54,705	37,664
Valuation allowance	(54,705)	(37,664)
Net deferred tax asset	\$	\$

The Company has recorded a valuation allowance against its deferred tax assets in each of the years ended December 31, 2011 and 2010, because the Company's management believes that it is more likely than not that these assets will not be realized. The increase in the valuation allowance in 2011 primarily relates to the net loss incurred by the Company.

Effective January 1, 2009, the Company adopted new accounting guidance related to accounting for uncertainty in income taxes. The Company's reserves related to taxes are based on a determination of whether and how much of a tax benefit taken by the Company in its tax filings or positions is more likely than not to be realized following resolution of any potential contingencies present related to the



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**Radius Health, Inc.**

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**NOTES TO FINANCIAL STATEMENTS (Continued)**  
**(In thousands, except share and per share amounts)**

tax benefit. As a result of the implementation of the new guidance, the Company recognized no material adjustment for unrecognized income tax benefits. As of the adoption date on January 1, 2009, and through December 31, 2011, the Company had no unrecognized tax benefits or related interest and penalties accrued. The Company has not, as yet, conducted a study of research and development (R&D) credit carryforwards. In addition, the Company has not, as yet, conducted an Internal Revenue Code Section 382 study, which could impact its ability to utilize NOL and tax credit carryforwards available to be used. These studies may result in adjustments to the Company's R&D credit carryforwards and NOL carryforwards; however, until a study is completed and any adjustment is known, no amounts are being presented as an uncertain tax position. A full valuation allowance has been provided against the Company's R&D credits and, if an adjustment is required, this adjustment would be offset by an adjustment to the valuation allowance. Thus, there would be no impact to the balance sheet or statement of operations if an adjustment were required. The Company would recognize both accrued interest and penalties related to unrecognized benefits in income tax expense. The Company has not recorded any interest or penalties on any unrecognized benefits since inception.

The statute of limitations for assessment by the Internal Revenue Service and Massachusetts tax authorities is closed for tax years prior to December 31, 2007, although carryforward attributes that were generated prior to tax year 2007 may still be adjusted upon examination by the IRS or state tax authorities if they either have been or will be used in a future period. The Company files income tax returns in the United States and Massachusetts. There are currently no federal or state audits in progress.

**Qualifying therapeutic discovery project grants**

In October 2010, the Company received notification from the Internal Revenue Service that it was awarded three separate grants in the aggregate amount of \$733 pursuant to the qualifying therapeutic discovery grant program established by the Internal Revenue Service and the Secretary of Health and Human Services under the Patient Protection and Affordable Care Act of 2010. The grants were made with respect to certain of the Company's qualifying research and development programs. The Company received the full amount related to these grants in 2010, and this amount was recorded as other income in the statement of operations for the year ended December 31, 2010.

Table of Contents**Radius Health, Inc.****CONDENSED BALANCE SHEETS**  
**(in thousands, except share and per share amounts)**

	June 30, 2012	December 31, 2011
	(unaudited)	
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 18,832	\$ 25,128
Marketable securities	27,042	31,580
Prepaid expenses and other current assets	5,952	6,682
Total current assets	51,826	63,390
Property and equipment, net	98	167
Other assets	45	80
Total assets	\$ 51,969	\$ 63,637
<b>Liabilities, convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit</b>		
Current liabilities:		
Accounts payable	\$ 1,247	\$ 313
Accrued expenses	2,134	3,590
Current portion of note payable	5,836	2,880
Total current liabilities	9,217	6,783
Note payable, net of current portion and discount	17,083	8,886
Warrant liability	862	450
Other liabilities	17,456	10,470
Series A-1 Convertible Preferred Stock, \$.0001 par value; 1,000,000 shares authorized, 939,612 issued and outstanding at December 31, 2011 and June 30, 2012	68,755	65,675
Series A-2 Convertible Preferred Stock, \$.0001 par value; 983,213 shares authorized, 983,208 issued and outstanding at December 31, 2011 and June 30, 2012	83,238	79,979
Series A-3 Convertible Preferred Stock, \$.0001 par value; 142,230 shares authorized, 142,227 issued and outstanding at December 31, 2011 and June 30, 2012	10,679	10,208
Series A-4 Convertible Preferred Stock, \$.0001 par value; 4,000 shares authorized, 3,998 issued and outstanding at December 31, 2011 and June 30, 2012	271	271
Series A-5 Convertible Preferred Stock, \$.0001 par value; 7,000 shares authorized, 6,443 issued and outstanding at December 31, 2011 and June 30, 2012	525	525
Series A-6 Convertible Preferred Stock, \$.0001 par value; 800,000 shares authorized, no shares issued and outstanding at December 31, 2011 and June 30, 2012		
<b>Stockholders' deficit:</b>		
Common stock, \$.0001 par value; 34,859,964 shares authorized, 855,116 and 645,399 shares issued and outstanding at June 30, 2012 and December 31, 2011, respectively		2,744
Additional paid-in-capital		5
Accumulated other comprehensive loss	10	5
Accumulated deficit	(156,127)	(122,359)
Total stockholders' deficit	(156,117)	(119,610)

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Total liabilities, convertible preferred stock, redeemable convertible preferred stock and stockholders' deficit	\$	51,969	\$	63,637
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See accompanying notes.

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**CONDENSED STATEMENTS OF OPERATIONS****(Unaudited, in thousands, except share and per share amounts)**

	<b>Six-Month Period Ended June 30,</b>	
	<b>2012</b>	<b>2011</b>
Operating expenses:		
Research and development	\$ 24,366	\$ 20,689
General and administrative	4,291	1,842
Loss from operations	(28,657)	(22,531)
Interest income	35	20
Other income (expense)	(1,184)	22
Interest expense	(1,027)	(108)
Net loss	\$ (30,833)	\$ (22,597)
Comprehensive loss	\$ (30,828)	\$ (22,594)
Earnings (loss) attributable to common stockholders basic and diluted (Note 5)	\$ (37,643)	\$ 1,013
Earnings (loss) per share (Note 5):		
Basic	\$ (46.18)	\$ 2.51
Diluted	\$ (46.18)	\$ 0.27
Weighted average shares:		
Basic	815,053	403,967
Diluted	815,053	3,790,913

See accompanying notes.

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**Radius Health, Inc.**

**STATEMENTS OF CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' DEFICIT**  
**(Unaudited, in thousands except share amounts)**

Series A-1		Series A-2		Series A-3		Series A-4		Series A-5		Series A-6		Common Stock		Additional Paid In Capital Amount	Accumulated Other Comprehensive Income (Loss) Amount	Accumulated Deficit Amount	
Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount				
939,612	\$65,675	983,208	\$79,979	142,227	\$10,208	3,998	\$271	6,443	\$525				\$ 645,399	\$	\$ 2,744	\$ 5	\$(122,308)
																5	
	3,080		3,259		471										(3,875)		(2,900)
													209,717		873		
														258			
939,612	\$68,755	983,208	\$83,238	142,227	\$10,679	3,998	\$271	6,443	\$525				\$ 855,116	\$	\$	\$10	\$(156,100)

See accompanying notes.

Table of Contents**Radius Health, Inc.****STATEMENTS OF CASH FLOWS**  
**(Unaudited, in thousands)**

	<b>Six months ended June 30,</b>	
	<b>2012</b>	<b>2011</b>
<b>Operating activities</b>		
Net loss	\$ (30,833)	\$ (22,597)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation	24	15
Stock-based compensation expense	873	106
Research and development expense to be settled in stock	5,335	3,421
Amortization of premium (accretion of discount) on short-term investments, net	80	21
Non-cash interest	199	30
Change in fair value of warrant liability and other liability	1,184	
Milestone payment settled with stock		1,410
Changes in operating assets and liabilities:		
Prepaid expenses and other current assets	1,219	(3,028)
Other long-term assets	35	31
Accounts payable	934	(541)
Accrued expenses	(1,456)	1,507
Net cash used in operating activities	(22,406)	(19,625)
<b>Investing activities</b>		
Purchases of property and equipment		(3)
Proceeds from sale of equipment	45	
Purchases of marketable securities	(17,722)	(899)
Sales and maturities of marketable securities	22,185	8,850
Net cash provided by investing activities	4,508	7,948
<b>Financing activities</b>		
Proceeds from the exercise of stock options	258	152
Net proceeds from the issuance of preferred stock		20,452
Proceeds on note payable, net	12,469	5,883
Deferred financing costs		(56)
Payments on note payable	(1,125)	
Net cash provided by financing activities	11,602	26,431
Net increase in cash and cash equivalents	(6,296)	14,754
Cash and cash equivalents at beginning of period	25,128	10,582
Cash and cash equivalents at end of period	\$ 18,832	\$ 25,336
<b>Supplemental disclosures</b>		
Cash paid for interest	\$ 721	\$
<b>Noncash financing activities</b>		
Fair value of preferred stock issued in the recapitalization, net of issuance costs	\$	\$ 85,879

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Accretion of dividends on preferred stock	\$	6,810	\$	5,595
Fair value of warrants issued	\$	379	\$	217

See accompanying notes.

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**NOTES TO INTERIM FINANCIAL STATEMENTS****(Unaudited)****1. Organization**

Radius Health, Inc. ("Radius" or the "Company"), which was formerly known as MPM Acquisition Corp., is a biopharmaceutical company focused on acquiring and developing new therapeutics for the treatment of osteoporosis and other women's health conditions. The Company's lead product candidate, currently in Phase 3 clinical development, is BA058-SC, a daily subcutaneous injection of novel synthetic peptide analog of human parathyroid hormone-related protein (hPTHrP) for the treatment of osteoporosis. The BA058-SC Phase 3 study began dosing patients in April 2011. The Company is also developing BA058-TD, a short wear time, transdermal form of BA058 delivered using a microneedle technology from 3M Drug Delivery Systems (3M), for which the Company expects to have a Phase 2 clinical study begin in the third quarter of 2012, with top-line data expected to be available in the second half of 2013. The Company also has two other product candidates, RAD1901, a selective estrogen receptor modulator, or SERM, in Phase 2 clinical development for the treatment of vasomotor symptoms (hot flashes) in women entering menopause, and RAD140, a selective androgen receptor modulator, or SARM, currently in preclinical development as a potential treatment for age-related muscle loss, frailty, weight loss associated with cancer cachexia and osteoporosis. As used throughout these financial statements, the terms "Radius," "Company," "we," "us" and "our" refer to Radius Health, Inc. (f/k/a MPM Acquisition Corp.).

Pursuant to an Agreement and Plan of Merger (the "Merger Agreement" or the "Merger") entered into in April 2011 by and among the Company (a public-reporting, Form 10 shell company at the time), RHI Merger Corp., a Delaware corporation and wholly owned subsidiary of the Company ("MergerCo"), and Radius Health, Inc., a privately-held Delaware corporation ("Former Operating Company"), MergerCo merged with and into the Former Operating Company, with the Former Operating Company remaining as the surviving entity and a wholly-owned subsidiary of the Company. This transaction is herein referred to as the "Merger". The Merger was effective as of May 17, 2011, upon the filing of a certificate of merger with the Delaware Secretary of State. Following the Merger on May 17, 2011, the Company's Board of Directors approved a transaction pursuant to which the Former Operating Company merged with and into the Company, leaving the Company as the surviving corporation (the "Short-Form Merger"). As part of the Short-Form Merger, the Company, then named MPM Acquisition Corp., changed its name to Radius Health, Inc. and assumed the operations of the Former Operating Company.

The Company is subject to the risks associated with emerging companies with a limited operating history, including dependence on key individuals, a developing business model, market acceptance of the Company's product candidates, competition for its product candidates, and the continued ability to obtain adequate financing to fund the Company's future operations. The Company has an accumulated deficit of \$156.1 million through June 30, 2012. The Company has incurred losses and expects to continue to incur additional losses for the foreseeable future. The Company intends to obtain additional equity and/or debt financing in order to meet working capital requirements and to further develop its product candidates. The Company believes that its existing cash and cash equivalents and marketable securities are sufficient to finance its operations, including its obligations under the Nordic agreement described in Note 12, into the first quarter of 2013.

**2. Basis of presentation**

The accompanying unaudited condensed financial statements and the related disclosures of the Company have been prepared in accordance with accounting principles generally accepted in the

Table of Contents**Radius Health, Inc.**

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**NOTES TO INTERIM FINANCIAL STATEMENTS (Continued)**  
**(Unaudited)**

United States ("GAAP") for interim financial reporting and as required by Regulation S-X, Rule 10-01. Accordingly, they do not include all of the information and footnotes required by GAAP for complete financial statements. In the opinion of management, all adjustments (including those which are normal and recurring) considered necessary for a fair presentation of the interim financial information have been included. When preparing financial statements in conformity with GAAP, the Company must make estimates and assumptions that affect the reported amounts of assets, liabilities, expenses and related disclosures at the date of the financial statements. Actual results could differ from those estimates. Additionally, operating results for the three months ended June 30, 2012 are not necessarily indicative of the results that may be expected for any other interim period or for the fiscal year ending December 31, 2012. For further information, refer to the financial statements and footnotes included in the Company's audited financial statements for the year ended December 31, 2011 included in the Company's Annual Report on Form 10-K as filed with the Securities and Exchange Commission ("SEC") on February 6, 2012.

**3. Summary of significant accounting policies**

The significant accounting policies identified in the Company's most recent Annual Report on Form 10-K for the fiscal year ended December 31, 2011 related to accrued clinical expenses, research and development expenses, stock-based compensation, accrued expenses and income taxes. There were no changes to significant accounting policies in the three months ended June 30, 2012.

**Recently adopted accounting standards**

In June 2011, the Financial Accounting Standards Board ("FASB") issued Accounting Standard Update No. 2011-05, *Comprehensive Income* ("ASU No. 2011-05"), which requires companies to present the components of net income and other comprehensive income either as one continuous statement or as two consecutive statements. ASU No. 2011-05 eliminates the option to present components of other comprehensive income as part of the statement of changes in stockholders' equity. The update does not change the items which must be reported in other comprehensive income, how such items are measured or when they must be reclassified to net income. The Company adopted ASU No. 2011-05 on January 1, 2012. Its adoption did not have a material impact on the Company's financial statements or results of operations.

In May 2011, FASB issued Accounting Standards Update No. 2011-04, *Fair Value Measurement (Topic 82) Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRSs* ("ASU No. 2011-04"). The amendments in this update ensure that fair value has the same meaning in U.S. GAAP and in IFRS and that their respective fair value measurement and disclosure requirements are the same. This update is effective prospectively for interim and annual periods beginning after December 15, 2011. The Company adopted ASU No. 2011-04 on January 1, 2012. Its adoption did not have a material impact on the Company's results of operations, financial position or cash flows.

Table of Contents**Radius Health, Inc.****NOTES TO INTERIM FINANCIAL STATEMENTS (Continued)**  
**(Unaudited)****4. Net income (loss) per share**

Basic and diluted net income (loss) per share is calculated as follows:

	Three months ended June 30,		Six months ended June 30,	
	2012	2011	2012	2011
<b>(In thousands, except share and per share amounts)</b>				
<b>Numerator:</b>				
Net loss	\$ (17,961)	\$ (17,588)	\$ (30,833)	\$ (22,597)
Extinguishment of preferred stock		60,937		60,937
Accretion of preferred stock	(3,456)	(2,719)	(6,810)	(5,595)
Earnings attributable to participating preferred stockholders		(39,229)		(31,732)
Earnings (loss) attributable to common stockholders basic	(21,417)	1,401	(37,643)	1,013
Effect of dilutive convertible preferred stock				
Earnings (loss) attributable to common stockholders diluted	\$ (21,417)	\$ 1,401	\$ (37,643)	\$ 1,013
<b>Denominator:</b>				
Weighted-average number of common shares used in earnings (loss) per share basic	854,517	484,237	815,053	403,967
Effect of dilutive options to purchase common stock		409,113		261,193
Effect of dilutive convertible preferred stock		2,281,998		3,125,753
Weighted-average number of common shares used in earnings (loss) per share diluted	854,517	3,175,348	815,053	3,790,913
Earnings (loss) per share basic	\$ (25.06)	\$ 2.89	\$ (46.18)	\$ 2.51
Effect of dilutive options to purchase common stock		(1.32)		(0.99)
Effect of dilutive convertible preferred stock		(1.13)		(1.25)
Earnings (loss) per share diluted	\$ (25.06)	\$ 0.44	\$ (46.18)	\$ 0.27

The following potentially dilutive securities, prior to the use of the treasury stock method, have been excluded from the computation of diluted weighted-average shares outstanding, as they would be anti-dilutive:

	Three months ended June 30,		Six months ended June 30,	
	2012	2011	2012	2011
Convertible preferred stock	5,005,450	13,557,238	4,574,107	9,267,677
Options to purchase common stock	3,911,483		3,864,265	418,215
Warrants	15,000	4,154	15,000	4,154

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Table of Contents**Radius Health, Inc.****NOTES TO INTERIM FINANCIAL STATEMENTS (Continued)**  
**(Unaudited)****5. Marketable securities**

Available-for-sale marketable securities consist of the following:

	Amortized Cost	June 30, 2012 Gross Unrealized		Gross Unrealized Losses	Fair Value
		Gains			
(In thousands)					
Marketable securities:					
Corporate debt securities	2,513			(1)	2,512
Corporate commercial paper	21,234	11			21,245
U.S Government Securities	3,285				3,285
<b>Total</b>	<b>\$ 27,032</b>	<b>\$ 11</b>		<b>\$ (1)</b>	<b>\$ 27,042</b>

	Carrying value	December 31, 2011 Gross Unrealized		Gross Unrealized Losses	Fair Value
		Gains			
(In thousands)					
Marketable securities:					
Domestic corporate debt securities	10,260			(6)	10,254
Domestic corporate commercial paper	18,987	11			18,998
U.S. government securities	2,328				2,328
<b>Total</b>	<b>\$ 31,575</b>	<b>\$ 11</b>		<b>\$ (6)</b>	<b>\$ 31,580</b>

The Company held 6 debt securities at June 30, 2012 that had been in an unrealized loss position for less than 12 months. The fair value on these securities was \$5.8 million. The Company evaluated these securities for other-than-temporary impairments based on quantitative and qualitative factors. The Company considered the decline in market value for these 6 securities to be primarily attributable to current economic and market conditions. It is not more likely than not that the Company will be required to sell these securities, and it does not intend to sell these securities before the recovery of their amortized cost bases. Based on the Company's analysis, it does not consider these investments to be other-than-temporarily impaired as of June 30, 2012.

**6. Fair Value Measurements**

The Company has certain assets and liabilities recorded at fair value which have been classified as Level 1, 2 or 3 within the fair value hierarchy as described in the accounting standards for fair value measurements.

- > Level 1 Quoted market prices in active markets for identical assets or liabilities. Assets utilizing Level 1 inputs include money market funds and bank deposits;

- >

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Level 2 Inputs other than Level 1 inputs that are either directly or indirectly observable, such as quoted market prices, interest rates and yield curves. Assets utilizing Level 2 inputs include U.S. government securities, including direct issuance bonds and corporate bonds; and

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Table of Contents**Radius Health, Inc.****NOTES TO INTERIM FINANCIAL STATEMENTS (Continued)**  
**(Unaudited)**

> Level 3 Unobservable inputs developed using estimates and assumptions developed by the Company, which reflect those that a market participant would use.

The following table summarizes the financial instruments measured at fair value on a recurring basis in the accompanying balance sheet as of June 30, 2012 and December 31, 2011:

	June 30, 2012			Total
	Level 1	Level 2	Level 3	
(In thousands)				
<b>Assets</b>				
Marketable Securities				
Domestic corporate debt securities	\$	\$ 2,512	\$	\$ 2,512
Domestic corporate commercial paper		21,245		21,245
U.S Government Securities		3,285		3,285
Stock dividend asset			3,706	3,706
	\$	\$ 27,042	\$ 3,706	\$ 30,748

	June 30, 2012			Total
	Level 1	Level 2	Level 3	
(In thousands)				
<b>Liabilities</b>				
Warrant liability	\$	\$	\$ 862	\$ 862
Other liability			17,456	17,456
	\$	\$	\$ 18,318	\$ 18,318

Fair value for Level 1 is based on quoted market prices. Fair value for Level 2 is based on quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active and model-based valuation techniques for which all significant assumptions are observable in the market or can be corroborated by observable market data for substantially the full term of the assets. Inputs are obtained from various sources including market participants, dealers and brokers. Fair value for Level 3 is based upon the fair values determined using the probability-weighted expected return method, or PWERM, as discussed below. Changes in fair value of the Level 3 assets and liabilities are recorded as other income (expense) in the statement of operations.

The stock dividend asset represents the prepaid balance of the accrued stock dividend ("other liability" or "stock liability") to issue shares of Series A-6 preferred stock ("Series A-6") to Nordic Bioscience Clinical Development VII A/S ("Nordic") (Note 12) and the amount of research and development expense related to stock dividend amounts being recognized ratably over the estimated per patient treatment period. The fair value of the stock liability is based upon the fair value of the Series A-6 shares as determined using PWERM, which considers the value of preferred and common stock based upon analysis of the future values for equity assuming various future outcomes. Accordingly, share value is based upon the probability weighted present value of expected future net cash flows, considering each of the possible future events, discount rate as determined using the capital asset pricing model, as well as the rights and preferences of each share class. PWERM is complex as it requires numerous assumptions relating to potential future outcomes of equity, hence, the use of this



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method can be applied: (i) when possible future outcomes can be predicted with reasonable certainty; and (ii) when there is a complex capital structure (i.e., several classes of preferred and common stock). The Company utilized the PWERM approach in its valuation based on the Company's expectations regarding the time to becoming a listed, publicly-traded entity as well as the Company's Series A-1 financing and the initiation of BA058-SC Phase 3 study that resolved sufficient uncertainty regarding a discrete range of outcomes that could be identified and evaluated. As such, the valuation of the stock dividend asset was determined to be a Level 3 valuation.

The warrant liability represents the liability for the warrants issued to a placement agent and to the lenders in connection with the Company's credit facility in the year ended December 31, 2011 and three months ended June 30, 2012. The warrant liability is calculated using the Black-Scholes option pricing method. This method of valuation includes using inputs such as the fair value of the Company's various classes of preferred stock, historical volatility, the term of the warrant and risk-free interest rates. The fair value of the Company's shares of common and preferred stock was estimated using PWERM, as described above. As such, the valuation of the warrant liability was determined to be a Level 3 liability.

The other liability represents the liability to issue shares of Series A-6 to Nordic for services rendered in connection with the Company's Phase 3 clinical study of BA058-SC (Note 12). The liability is calculated based upon the number of shares earned by Nordic through the performance of clinical trial services multiplied by the estimated fair value of the Company's Series A-6 at each reporting date. The estimated fair value of the Series A-6 is determined using PWERM, as described above. As such the valuation of the other liability was determined to be a Level 3 liability.

The Company's Level 3 fair value measurements, related to its stock dividend asset, warrant liability and other liability, are measurements of the fair value of the Company's preferred stock. The following table provides quantitative information about the fair value measurement of the Company's preferred stock, including significant unobservable inputs:

<b>Instrument</b>	<b>Valuation technique</b>	<b>Unobservable input</b>	<b>Estimate</b>
Preferred Stock	PWERM	>Time to becoming a listed, publicly-traded entity (years)	>0.2 - 0.3
		>Probability of BA058 coming to market	>70% - 80%
		>Discount rate	>20% - 30%
		>Long-term revenue growth rate <sup>(1)</sup>	>2% - 117%
		>Long-term revenue growth rate <sup>(2)</sup>	>8% - 63%
		>Long-term pretax operating margin <sup>(3)</sup>	>13% - 79%
		>Long-term pretax operating margin <sup>(4)</sup>	>28% - 73%
		>Discount for lack of marketability	>24% - 53%
	Market Comparable Companies	>Revenue multiple <sup>(5)</sup>	>3.3 - 7.2

(1) *Estimated long-term revenue growth rate in one scenario has the above range and an average of approximately 24% over 16 revenue years.*

(2) *Estimated long-term revenue growth rate in a second scenario has the above range and an average of approximately 20% over 16 revenue years.*

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- (3) *Estimated long-term pretax operating margin in one scenario has the above range after achieving positive pretax operating margin and an average of approximately 69% for 17 years.*
- (4) *Estimated long-term pretax operating margin in a second scenario has the above range after achieving positive pretax operating margin and an average of approximately 59% for 17 years.*
- (5) *Represents amounts used when the Company has determined that market participants would use such multiples when valuing the Company's preferred stock.*

As of June 30, 2012, the stock dividend asset, warrant liability and other liability have fair values of \$3.7 million, \$0.9 million and \$17.5 million, respectively. Significant changes in the significant unobservable inputs used in the fair value measurement of the Company's preferred stock in isolation would result in a significantly different fair value measurement of the stock dividend asset, warrant liability and other liability. Generally, a change in the assumption used for the probability of successful development is accompanied by a directionally similar change in the assumption used for the long-term revenue growth rate and long-term pretax operating margin and estimated fair value measurement of the Company's preferred stock.

Significant increases (decreases) in the significant unobservable inputs used in the fair value measurement of the warrant liability and other liability in isolation would result in a significantly higher (lower) fair value measurement. Generally, a change in the assumption used for the probability of successful development is accompanied by a directionally similar change in the assumption used for the long-term revenue growth rate and long-term pretax operating margin.

The following table provides a rollforward of the fair value of the assets, where fair value is determined by Level 3 inputs:

	<b>(In thousands)</b>
Balance at January 1, 2012	\$3,379
Reductions	(173)
Change in fair value	500
Balance at June 30, 2012	\$3,706

The following table provides a rollforward of the fair value of the liabilities, where fair value is determined by Level 3 inputs:

	<b>(In thousands)</b>
Balance at January 1, 2012	\$10,920
Additions	5,714
Change in fair value	1,684
Balance at June 30, 2012	\$18,318

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Additions represents i) the value of the liability for additional accrued shares of Series A-6 issuable to Nordic for services rendered in connection with the Company's Phase 3 clinical study of BA058-SC (Note 12) and ii) warrants issued the lenders in connection with the Company's credit facility in the three months ended June 30, 2012.

The fair value of the Company's notes payable is determined using current applicable rates for similar instruments as of the balance sheet date. The carrying value of the Company's notes payable approximates fair value because the Company's interest rate is near current market rates. The Company's notes payable are Level 3 liabilities within the fair value hierarchy.

**7. Accrued expenses**

Accrued expenses consist of the following:

	<b>June 30,</b>	<b>December 31,</b>
	<b>2012</b>	<b>2011</b>
	<b>(In thousands)</b>	
Research costs	\$ 805	\$ 2,276
Payroll and employee benefits	515	586
Professional fees	304	472
Vacation	118	79
Accrued interest on notes payable	392	177
Total accrued expenses	\$ 2,134	\$ 3,590

**8. Loan and security agreement**

On May 29, 2012, the Company borrowed \$12.5 million ("Term Loan C") from Oxford Finance Corporation and General Electric Capital Corporation (collectively, the "Lender") pursuant to the terms of the loan and security agreement (the "Loan and Security Agreement") entered into between the Company and the Lender on May 23, 2011.

The Company is required to pay interest on Term Loan C on a monthly basis through and including November 1, 2012. Beginning December 1, 2012 through the maturity of Term Loan C on November 24, 2014, the Company will be required to make payments of outstanding principal and interest on Term Loan C in 25 payments of principal and interest, which are payable monthly in arrears with a final balloon payment of \$1,250,000. Interest is payable on Term Loan C at an annual interest rate of 10%.

Upon the last payment date of Term Loan C, whether on the maturity date of one of the term loans, on the date of any prepayment or on the date of acceleration in the event of a default, the Company will be required to pay the Lender a final payment fee equal to 3.5% of Term Loan C. In addition, if the Company repays all or a portion of Term Loan C prior to maturity, it will pay the Lender a prepayment fee of 3% of the total amount prepaid if the prepayment occurs prior to the first anniversary of the funding of Term Loan C, 2% of the total amount prepaid if the prepayment occurs between the first and second anniversary of the funding of Term Loan C, and 1% of the total amount prepaid if the prepayment occurs on or after the second anniversary of the funding of Term Loan C.

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In connection with the borrowings under Term Loan C, the Company issued to the Lender warrants to purchase 6,140 shares of the Company's Series A-1 Preferred Stock (the "Warrants"). The Warrants are exercisable, in whole or in part, immediately, and have a per share exercise price of \$81.42 and may be exercised on a cashless basis. The Warrants will expire on May 29, 2022. The exercise price may be adjusted in the event the Company issues shares of Series A-1 preferred stock ("Series A-1") at a price lower than \$81.42 per Warrants issued in connection with Term Loan C was \$379,684 and was recorded as a discount to Term Loan C and is reflected in note payable in the balance sheet. The discount is being amortized to interest expense over the 30 month period that Term Loan C is outstanding. The Warrants are classified as a liability in the Company's balance sheet and will be remeasured at their estimated fair value at each reporting period. The changes in fair value are recorded as other income (expense) in the Statement of Operations.

Future principal payments under the Loan and Security Agreement at June 30, 2012, are as follows:

	<b>Principal Payments</b>
	<b>(In thousands)</b>
2012	\$ 2,375
2013	8,188
2014	13,156
<b>Total</b>	<b>\$ 23,719</b>
Current portion of note payable	6,313
Discount on current portion of note payable	(477)
<b>Current portion of note payable, net of discount</b>	<b>\$ 5,836</b>
Discount on noncurrent portion of note payable	(323)
<b>Note payable, net of current portion and discount</b>	<b>\$ 17,083</b>

**9. Convertible preferred stock**

The rights, preferences, and privileges of the Series A-1, Series A-2 preferred stock ("Series A-2"), Series A-3 preferred stock ("Series A-3"), Series A-4 preferred stock ("Series A-4"), Series A-5 preferred stock ("Series A-5") and Series A-6 are as follows:

**Conversion**

Each preferred stockholder has the right, at their option at any time, to convert any such shares of Preferred Stock into such number of fully paid shares of Common Stock as is determined by dividing the original purchase price of \$81.42 by the conversion price ("Optional Conversion"). The conversion price of the Preferred Stock as of June 30, 2012 was \$8.142 per share (the "Conversion Price"), which represents a conversion ratio of one share of Preferred Stock into ten shares of Common Stock. Upon the Optional Conversion, the holder of the converted Preferred Stock is entitled to payment of all accrued, whether or not declared, but unpaid dividend in shares of the Common Stock of the Company at the then effective conversion price of shares of Preferred Stock.

Each share of Preferred Stock is automatically convertible into fully paid and non-assessable shares of Common Stock at the applicable Conversion Price then in effect upon (i) a vote of the holders of at

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least 70% of the outstanding shares of Series A-1, Series A-2 and Series A-3 to convert all shares of Preferred Stock or (ii) the Common Stock becoming listed for trading on a national stock exchange ("Special Mandatory Conversion"). Upon a Special Mandatory Conversion, all accrued, whether or not declared, but unpaid dividends shall be paid in cash or shares of Common Stock (calculated based on the then effective conversion price of the Series A-1) at the discretion of the Company's Board of Directors.

**Redemption**

The shares of Preferred Stock are not currently redeemable.

**Dividends**

Holders of shares of Series A-1 are entitled to receive dividends at a rate of 8% per annum, compounding annually, which accrue on a quarterly basis commencing on the date of issuance of the shares of Series A-1. Dividends are payable, as accrued, upon liquidation, event of sale, and conversion to Common Stock as described above. The holders of shares of Series A-1 are also entitled to dividends declared or paid on any shares of Common Stock.

Following payment in full of required dividends to the holders of Series A-1, holders of Series A-2 are entitled to receive dividends at a rate of 8% per annum, compounding annually, which accrue on a quarterly basis commencing on the date of issuance of the shares of Series A-2. Dividends are payable, as accrued, upon liquidation, event of sale, and conversion to Common Stock as described above. holders of shares of Series A-2 are also entitled to dividends declared or paid on any shares of Common Stock.

Following payment in full of required dividends to the holders of Series A-1 and Series A-2, holders of Series A-3 are entitled to receive dividends at a rate of 8% per annum, compounding annually, which accrue on a quarterly basis commencing on the date of issuance of the shares of Series A-3. Dividends are payable, as accrued, upon liquidation, event of sale and conversion to Common Stock as described above. The holders of shares of Series A-3 are also entitled to dividends declared or paid on any shares of Common Stock.

Without regard to the payment of required dividends to the holders of Series A-1, Series A-2 and Series A-3, holders of Series A-5 are entitled to receive the Series A-5 Accruing Dividend paid in shares of Series A-6 as described in Note 12. Holders of shares of Series A-6 are entitled to receive dividends on shares of Series A-6, when and if declared by the Board of Directors at a rate to be determined by the Board of Directors. Dividends are payable, as accrued, upon liquidation, event of sale and conversion to Common Stock as described above. The holders of shares of Series A-5 and Series A-6 are also entitled to dividends declared or paid on any shares of Common Stock.

Following payment in full of required dividends to the holders of Series A-1, Series A-2, Series A-3 and Series A-5, holders of Series A-4 are entitled to receive dividends on shares of Series A-4, when and if declared by the Board of Directors at a rate to be determined by the Board of Directors. Dividends are payable, as accrued, upon liquidation, event of sale, and conversion to Common Stock as described above. The holders of shares of Series A-4 are also entitled to dividends declared or paid on any shares of Common Stock.

Dividends on the Preferred Stock are payable, at the sole discretion of the Board of Directors, in cash or in shares of the Company's Common Stock, when and if declared by the Board of Directors, upon

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liquidation or upon an event of sale at the current market price of shares of Common Stock. Upon Optional Conversion, dividends are payable in shares of the Common Stock at the then effective conversion price of shares of Preferred Stock.

The Company has accrued dividends of \$5.0 million, \$7.3 million and \$1.1 million on Series A-1, Series A-2 and Series A-3, respectively, as of June 30, 2012.

**Voting**

The preferred stockholders are entitled to vote together with the holders of the Common Stock as one class on an as-if converted basis.

In addition, as long as the shares of Series A-1 are outstanding, the holders of Series A-1, voting as a separate class, have the right to elect two members of the Company's Board of Directors.

**Liquidation**

The shares of Series A-1 rank senior to all other classes of Preferred Stock. Series A-2 ranks junior to Series A-1 and senior to Series A-3, Series A-4, Series A-5 and Series A-6. Series A-3, Series A-5 and Series A-6 rank equally but junior to Series A-1 and Series A-2 and senior to Series A-4. Series A-4 ranks senior to the Company's Common Stock.

In the event of a liquidation, dissolution, or winding-up of the Company, the holders of the Series A-1 are entitled to be paid first out of the assets available for distribution, before any payment is made to the Series A-2, Series A-3, Series A-4, Series A-5 and Series A-6. Payment to the holders of Series A-1 shall consist of the original issuance price of \$81.42, plus all accrued but unpaid dividends. After the distribution to the holders Series A-1, the holders of Series A-2 will be entitled to receive an amount per share equal to the original purchase price per share of \$81.42, plus any accrued but unpaid dividends. After the distribution to the holders Series A-1 and Series A-2, the holders of Series A-3, Series A-5 and Series A-6 will be entitled to receive an amount per share equal to the original purchase price per share of \$81.42, plus any accrued but unpaid or declared and unpaid dividends, as appropriate. After the distribution to the holders Series A-1, Series A-2, Series A-3, Series A-5 and Series A-6, the holders of Series A-4 will be entitled to receive an amount per share equal to the original purchase price per share of \$81.42, plus any declared and unpaid dividends. If the assets of the Company are insufficient to pay the full preferential amounts to the holders of Series A-1, the assets will be distributed ratably among the holders of Series A-1 in proportion to their aggregate liquidation preference amounts. If the assets of the Company are insufficient to pay the full preferential amounts to the holders of Series A-2, the assets will be distributed ratably among the holders of Series A-2 in proportion to their aggregate liquidation preference amounts. If the assets of the Company are insufficient to pay the full preferential amounts to the holders of Series A-3, Series A-5 and Series A-6, the assets will be distributed ratably among the holders of Series A-3, Series A-5 and Series A-6 in proportion to their aggregate liquidation preference amounts. If the assets of the Company are insufficient to pay the full preferential amounts to the holders of Series A-4, the assets will be distributed ratably among the holders of Series A-4 in proportion to their aggregate liquidation preference amounts. After all liquidation preference payments have been made to the holders of the Preferred Stock, the holders of the Preferred Stock shall participate in the distribution of the remaining assets with the holders of the Company's Common Stock on an as-if converted basis.

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In the event of, and simultaneously with, the closing of an event of sale of the Company (as defined in the Company's Amended Articles of Incorporation), the Company shall redeem all of the shares of Series A-1, Series A-2, Series A-3, Series A-4, Series A-5 and Series A-6 then outstanding at the Special Liquidation Price, as defined. If the event of sale involves consideration other than cash, the Special Liquidation Price may be paid with such consideration having a value equal to the Special Liquidation Price. The Special Liquidation Price shall be equal to an amount per share, which would be received by each Preferred Stockholder if, in connection with the event of sale, all the consideration paid in exchange for the assets or the shares of capital stock of the Company was actually paid to and received by the Company, and the Company was immediately liquidated thereafter and its assets distributed pursuant to the liquidation terms above.

**10. Stock-based compensation**

A summary of stock option activity is as follows:

	Shares	Weighted- average exercise price	Weighted- average contractual life (in years)	Aggregate intrinsic value
(In thousands, except for per share amounts)				
Options outstanding at December 31, 2011	3,950	\$ 2.94		
Granted	198	4.21		
Exercised	(210)	1.23		
Cancelled	(1)	1.20		
Options outstanding at June 30, 2012	3,937	\$ 3.10	8.57	\$ 4,617
Options exercisable at June 30, 2012	1,030	\$ 1.53	6.21	\$ 2,826
Options vested or expected to vest at June 30, 2012	3,827	\$ 3.10	8.57	\$ 4,257

The total grant-date fair value of stock options that vested during the three- and six-month periods ended June 30, 2012 was approximately \$130,000 and \$270,000, respectively. The aggregate intrinsic value of options that vested during the three- and six-month periods ended June 30, 2012 was approximately \$155,000 and \$286,000 respectively.

As of June 30, 2012, there was approximately \$4.8 million of total unrecognized compensation expense related to unvested employee share-based compensation arrangements, which is expected to be recognized over a weighted-average period of approximately 3.5 years.

**11. License agreements**

On September 27, 2005, the Company entered into a license agreement (the "Ipsen Agreement"), as amended, with SCRAS S.A.S, a French corporation on behalf of itself and its affiliates (collectively, "Ipsen"). Under the Ipsen Agreement, Ipsen granted to the Company an exclusive right and license under certain Ipsen compound technology and related patents to research, develop, manufacture and commercialize certain compounds and related products in all countries, except Japan and (subject to certain co-marketing and co-promotion rights retained by Ipsen) France. With respect to France, if Ipsen exercises its co-marketing and co-promotion rights, then Ipsen may elect to receive a percentage

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of the aggregate revenue from the sale of products by both parties in France (subject to a mid-double digit percentage cap) and Ipsen shall bear a corresponding percentage of the costs and expenses incurred by both parties with respect to such marketing and promotion efforts in France; Ipsen shall also pay Radius a mid-single digit royalty on Ipsen's allocable portion of aggregate revenue from the sale of products by both parties in France. BA058 (the Company's bone growth drug) is subject to the Ipsen Agreement. Ipsen also granted the Company an exclusive right and license under the Ipsen compound technology and related patents to make and have made compounds or product in Japan. Ipsen also granted the Company an exclusive right and license under certain Ipsen formulation technology and related patents solely for purposes of enabling the Company to develop, manufacture and commercialize compounds and products covered by the compound technology license in all countries, except Japan and (subject to certain co-marketing and pro-promotion rights retained by Ipsen) France. In consideration for these licenses, the Company made a nonrefundable, non-creditable payment of \$250,000 to Ipsen, which was expensed during 2005. The Ipsen Agreement provides for further payments in the range of €10.0 million to €36.0 million (\$12.7 million to \$45.6 million) to Ipsen upon the achievement of certain development and commercialization milestones specified in the Ipsen Agreement, and for the payment of fixed 5% royalties on net sales of any product by the Company or its sublicensees on a country-by-country basis until the last to expire of the licensed patents or for a period of 10 years after the first commercial sale in such country of any product that includes the compound licensed from Ipsen or any analog thereof, whichever is longer.

If the Company sublicenses the rights licensed from Ipsen, then the Company will also be required to pay Ipsen a percentage of certain payments received from such sublicensee (in lieu of milestone payments not achieved at the time of such sublicense). The applicable percentage is in the low double digit range. In addition, if the Company or its sublicensees commercialize a product that includes a compound discovered by it based on or derived from confidential Ipsen know-how, it will be obligated to pay to Ipsen a fixed low single digit royalty on net sales of such product on a country-by-country basis until the last to expire of its patents that cover such product or for a period of 10 years after the first commercial sale of such product in such country, whichever is longer. In connection with the Ipsen Agreement, the Company recorded approximately \$0.4 million, \$0.2 million, \$0.6 million, and \$0.3 million in research and costs in the three- and six-month periods ended June 30, 2012 and 2011, respectively. The costs were incurred by Ipsen and charged to the Company for the manufacture of the clinical supply of the licensed compound.

**12. Research agreements**

On March 29, 2011, the Company and Nordic entered into a Clinical Trial Services Agreement, a Work Statement NB-1 (the "Work Statement") under such Clinical Trial Services Agreement and a related Stock Issuance Agreement. Pursuant to the Work Statement, Nordic is managing the Phase 3 clinical study (the "Clinical Study") of BA058-SC and Nordic will be compensated for such services in a combination of cash and shares of Series A-6.

In December 2011, the Company entered into an amendment to the Work Statement, or the First Amendment. Pursuant to the original terms of the Work Statement, the study was to be conducted in 10 countries at a specified number of sites within each country. The terms of the First Amendment provide for two additional countries (the United States and India) in which the study will be conducted, specify a certain number of sites within each such additional country for the conduct of the study, and amend various terms and provisions of the Work Statement to reflect the addition of such countries and sites within the study's parameters. Payments to be made by the Company to Nordic

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under the First Amendment in connection with the conduct of the study in such additional countries are denominated in both euros and U.S. dollars and total up to both €717,700 (\$909,182) and \$289,663, respectively, for the 15 additional study sites in India contemplated by the First Amendment and up to both €1.2 million (\$1.5 million) and \$143,369, respectively, for the five additional study sites in the United States contemplated by the First Amendment.

In June 2012, the Company entered into a second amendment to the Work Statement, or the Second Amendment. Pursuant to the original terms of the Work Statement, as amended by the First Amendment, the study was to be conducted in 12 countries at a specified number of sites within each country. The terms of the Second Amendment (i) increase the overall number of sites by adding sites in Europe, Brazil and Argentina and removing other sites, (ii) specify a certain number of sites within each country for the conduct of the study, and (iii) amend various terms and provisions of the Work Statement to reflect additional services provided at existing sites and the addition of the new study sites within the study's parameters. The Second Amendment also provided that cash payments to Nordic under the Clinical Trial Services Agreement as well as the payment of shares of Series A-6 under the related Stock Issuance Agreement shall each be reduced by an amount of €11,941 (\$15,127) per subject for any subjects enrolled in India or the United States. Such reductions shall be applied in pro rata monthly installments. Payments to be made by the Company to Nordic under the Second Amendment in connection with the extra services provided at existing sites and the conduct of the study at the new study sites are denominated in both euros and U.S. dollars and total €3.7 million (\$4.7 million) and \$205,540, respectively.

Pursuant to the Work Statement, the Company is required to make certain per patient payments denominated in both euros and U.S. dollars for each patient enrolled in the Clinical Study followed by monthly payments for the duration of the study and final payments in two equal euro-denominated installments and two equal U.S. dollar-denominated installments. Changes to the Clinical Study schedule may alter the timing, but not the aggregate amounts, of the payments. The Work Statement, as amended on December 9, 2011 and June 18, 2012, provides for a total of up to approximately €41.2 million (\$52.1 million) of euro-denominated payments and a total of up to approximately \$3.2 million of U.S. dollar-denominated payments over the course of the Clinical Study.

Pursuant to the Stock Issuance Agreement, as amended, Nordic agreed to purchase the equivalent of €371,864 of Series A-5 Preferred Stock at \$8.142 per share, and the Company sold 64,430 shares of Series A-5 to Nordic on May 17, 2011 for proceeds of \$525,154 to the Former Operating Company. These shares were exchanged in the Merger for an aggregate of 6,443 shares of Series A-5.

The Stock Issuance Agreement provides that Nordic is entitled to receive quarterly stock dividends, payable in shares of Series A-6, or shares of common stock if the Company's preferred stock has been automatically converted in accordance with its amended certificate of incorporation, having an aggregate value of up to €36.8 million (\$46.6 million), or the Series A-5 Accruing Dividend. This right to receive the Series A-5 Accruing Dividend is non-transferrable and will remain with Nordic in the event it sells the shares of Series A-5 or in the event the shares of Series A-5 are converted into common stock in accordance with the Company's amended Certificate of Incorporation.

The Series A-5 Accruing Dividend is determined based upon the estimated period that will be required to complete the Clinical Study. On the last business day of each calendar quarter (each, an "Accrual Date"), beginning with the quarter ended June 30, 2011, the Company has a liability to issue shares of Series A-6 to Nordic that is referred to as the Applicable Quarterly Amount and is equal to (A) €36.8 million (\$46.6 million) minus the aggregate value of any prior Series A-5 Accruing Dividend

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accrued divided by (B) the number of calendar quarters it will take to complete the Clinical Study. To calculate the aggregate number of shares of Series A-6 due to Nordic in each calendar quarter, the Company converts the portion of €36.8 million (\$46.6 million) to accrue in such calendar quarter into U.S. dollars using the simple average of the exchange rate for buying U.S. dollars with euros for all Mondays in such calendar quarter. The Company then calculates the aggregate number of shares of Series A-6 to accrue in such calendar quarter by dividing the U.S. dollar equivalent of the Applicable Quarterly Amount, by the greater of (i) the fair market value as of the applicable Accrual Date and (ii) \$8.142 and rounding down the resulting quotient to the nearest whole number. Such shares due to Nordic will be issued when declared or paid by the Company's board of directors, who are required to do so upon Nordic's request, or upon an event of sale. During the three months ended March 31, 2012, additional information became available that required the Company to update the estimated period it will take to complete the Clinical Study, which is part of the calculation of the Applicable Quarterly Amount, as described above. The estimated period that it will take to complete the Clinical Study was updated from a total of 11 calendar quarters as of December 31, 2011 to a total of 13 calendar quarters as of March 31, 2012. Such change in the number of calendar quarters it will take to complete the Clinical Study resulted in a lower number of shares due to Nordic at the end of the quarter ended March 31, 2012 and June 30, 2012 and will result in a lower number of shares due to Nordic at the end of future quarters through the end of the Clinical Study and does not impact the Statement of Operations. As of June 30, 2012, 244,834 shares of Series A-6 are due to Nordic, or after the automatic conversion into common stock of the Company's convertible preferred stock, 2,448,340 shares of common stock.

Prior to the issuance of shares of Series A-6 to Nordic, the liability to issue shares of Series A-6 will be accounted for as a liability in the Company's Balance Sheet. As of June 30, 2012, the fair value of the liability was \$17.5 million based upon the fair value of the Series A-6 as determined using PWERM (Note 6). Changes in the fair value from the date of accrual to the date of issuance of the shares are recorded as a gain or loss in other income (expense) in the Statement of Operations.

The Company recognizes research and development expense for the amounts due to Nordic under the Work Statement ratably over the estimated per patient treatment period beginning upon enrollment in the Clinical Study, or a twenty-month period. The Company recorded \$6.9 million and \$11.8 million of research and development expense in the three- and six-month periods ended June 30, 2012 for per patient costs incurred for patients that had enrolled in the Clinical Study as of June 30, 2012. As of June 30, 2012, in addition to the \$17.5 million liability that is reflected in other liabilities on the Balance Sheet that will be settled in shares of Series A-6 Preferred Stock or common stock, as noted above, the Company has an asset resulting from payments to Nordic of approximately \$4.6 million that is included in prepaid expenses on the Balance Sheet.

The Company is also responsible for certain pass through costs in connection with the Clinical Study. Pass through costs are expensed as incurred or upon delivery. The Company recognized research and development expense of \$3.6 million and \$4.9 million for pass through costs in the three- and six-month periods ended June 30, 2012.

**13. Commitments and contingencies**

The Company may be exposed to certain claims or assessments in the ordinary course of business. In the opinion of management, the outcome of these matters is not likely to have any material effect on the financial position, results of operations, or cash flows of the Company.

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**Radius Health, Inc.**

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**NOTES TO INTERIM FINANCIAL STATEMENTS (Continued)  
(Unaudited)**

**14. Subsequent event**

*Letter of Intent regarding Clinical Trial Services*

On July 26, 2012, the Company entered into a Letter of Intent (the "Letter of Intent") with Nordic, which provides that the Company and Nordic will, subject to compliance by the Company with certain requirements of its Certificate of Incorporation and applicable securities laws, negotiate in good faith to enter into (1) a Work Statement NB-2 (the "Work Statement NB-2"), a draft of which is attached to the Letter of Intent, and (2) an amendment to that certain Amended and Restated Stock Issuance Agreement entered into by the Company and Nordic as of May 16, 2011 (the "Stock Issuance Agreement Amendment"). The Work Statement NB-2 is contemplated by the terms of that certain Clinical Trial Services Agreement, entered into as of March 29, 2011, between the Company and Nordic (the "Services Agreement").

The Letter of Intent further provides that Nordic will begin providing clinical trial services relating to the Phase 2 clinical study of the Company's BA058 Transdermal product, as contemplated by the Services Agreement and the draft Work Statement NB-2. Payments in cash to be made by the Company to Nordic under the Letter of Intent in connection with the services to be provided are denominated in both euros and U.S. dollars and total up to €3.5 million (\$4.4 million) and \$257,856, respectively. In addition, the Company will issue to Nordic, subject to the execution of the Work Statement NB-2 and the Stock Issuance Agreement Amendment, shares of its Series A-6 Convertible Preferred Stock having a value of at least \$2.9 million, as additional payment for services to be provided under the Work Statement NB-2 and the Services Agreement.

The Letter of Intent will terminate on the earlier of (1) the date on which the Company and Nordic enter into the Work Statement NB-2 and the Stock Issuance Agreement Amendment and (2) September 30, 2012.

*Amendment to Side Letter Agreement*

On July 26, 2012, the Company entered into an Amendment (the "Side Letter Amendment") to that certain Side Letter Agreement, dated March 29, 2011, between the Company and Nordic (the "Side Letter"). The Side Letter had provided that, upon entry into the Work Statement NB-2, a portion of the price for the services to be performed by Nordic thereunder would be paid in cash, and a portion would be paid in shares of the Company's Series A-6 Convertible Preferred Stock worth at least \$4.0 million. The Side Letter Amendment amends the Side Letter to provide that the value of the Series A-6 Convertible Preferred Stock issued as part of the payment made under the Work Statement NB-2 will be at least \$2.9 million.

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Table of Contents**PART II****INFORMATION NOT REQUIRED IN PROSPECTUS****Item 13. Other Expenses of Issuance and Distribution**

The following table sets forth the costs and expenses, other than underwriting discounts and commissions, payable in connection with the sale and distribution of the securities being registered. All amounts are estimated except the SEC registration fee and the FINRA filing fee.

<b>Item</b>	<b>Amount</b>
SEC Registration fee	\$ 9,885
FINRA filing fee	9,125
Initial NASDAQ Global Market listing fee	25,000
Legal fees and expenses	*
Accounting fees and expenses	*
Printing and engraving expenses	*
Transfer Agent and Registrar fees	*
Blue Sky fees and expenses	*
Miscellaneous fees and expenses	*
Total	\$ *

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*To be provided by amendment*

**Item 14. Indemnification of Directors and Officers**

Section 145 of the Delaware General Corporation Law provides that a corporation may indemnify its directors and officers from certain expenses in connection with legal proceedings and permits a corporation to include in its charter documents, and in agreements between the corporation and its directors and officers, provisions expanding the scope of indemnification beyond that specifically provided by this section.

The registrant's amended and restated bylaws provide for the indemnification of officers and directors if such persons act in good faith and in a manner reasonably believed to be in and not opposed to the registrant's best interest, and, with respect to any criminal action or proceeding, such indemnified party had no reason to believe his or her conduct was unlawful.

In addition, the registrant has entered into separate indemnification agreements with the registrant's directors and executive officers which would require the registrant, among other things, to indemnify them against certain liabilities which may arise by reason of their status or service (other than liabilities arising from willful misconduct of a culpable nature). The indemnification provisions in the registrant's amended and restated bylaws and the indemnification agreements entered into between the registrant and the registrant's directors and executive officers may be sufficiently broad to permit indemnification of the registrant's directors and executive officers for liabilities (including reimbursement of expenses incurred) arising under the Securities Act. The registrant also intends to maintain director and officer liability insurance, if available on reasonable terms, to insure the registrant's directors and officers against the cost of defense, settlement or payment of a judgment under certain circumstances.

The underwriting agreement will provide for indemnification by the underwriters of the registrant and the registrant's executive officers and directors, and indemnification of the underwriters by the registrant, for certain liabilities, including liabilities arising under the Securities Act of 1933, as amended, in connection with certain matters.

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**Item 15. Recent Sales of Unregistered Securities**

The following summarizes all sales of unregistered securities by the registrant since January 1, 2009:

On May 17, 2011, the registrant issued 413,254 shares of A-1 convertible preferred stock, 983,208 shares of series A-2 convertible preferred stock, 142,227 shares of series A-3 convertible preferred stock, 3,998 shares of series A-4 convertible preferred stock, 6,443 shares of series A-5 convertible preferred stock and 555,594 shares of common stock, and a warrant to purchase 818 shares of series A-1 convertible preferred stock, in the Merger to the former stockholders of the Former Operating Company in exchange for shares held in the Former Operating Company pursuant to Section 4(2) of the Securities Act and Rule 506 to 34 accredited investors and 17 investors who were not accredited and who the registrant believed immediately prior to making any sale that each such purchaser had such knowledge and experience in financial and business matters as to be capable of evaluating the merits and risks of the prospective investment.

On May 23, 2011, the registrant issued warrants to purchase an aggregate of 3,070 shares of series A-1 convertible preferred stock to two lenders, both of whom were accredited investors, in connection with a debt financing, pursuant to Section 4(2) of the Securities Act and Rule 506. No separate amount of consideration was paid for the issuance of the warrant under the loan agreement.

On November 18, 2011, the registrant issued a warrant to purchase 818 shares of series A-1 preferred stock to Leerink Swann LLC as consideration for services rendered in connection with the series A-1 preferred stock financing pursuant to Section 4(2) of the Securities Act. No separate amount of consideration was paid for the issuance of the warrant under the agreement.

On November 18, 2011, the registrant issued an aggregate of 263,178 shares of series A-1 preferred stock to accredited investors that were the former stockholders of the Former Operating Company pursuant to Section 4(2) of the Securities Act and Rule 506.

On November 21, 2011, the registrant issued warrants for the purchase of up to an aggregate of 3,070 shares of series A-1 preferred stock to two lenders, pursuant to Section 4(2) of the Securities Act and Rule 506. No separate amount of consideration was paid for the issuance of the warrant under the loan agreement.

On December 14, 2011, the registrant issued an aggregate of 263,180 shares of series A-1 preferred stock to accredited investors that were the former stockholders of the Former Operating Company pursuant to Section 4(2) of the Securities Act and Rule 506.

On December 14, 2011, the registrant issued a warrant to purchase 818 shares of series A-1 preferred stock to Leerink Swann LLC as consideration for services rendered in connection with the series A-1 preferred stock financing pursuant to Section 4(2) of the Securities Act. No separate amount of consideration was paid for the issuance of the warrant under the agreement.

On May 29, 2012, the registrant issued warrants for the purchase of up to an aggregate of 6,140 shares of series A-1 preferred stock to two lenders, pursuant to Section 4(2) of the Securities Act and Rule 506. No separate amount of consideration was paid for the issuance of the warrant under the loan agreement.

The offers, sales, and issuances of the securities described above were deemed to be exempt from registration under the Securities Act in reliance on Section 4(2) of the Securities Act or Rule 506 of Regulation D promulgated thereunder as transactions by an issuer not involving a public offering. The recipients of securities in each of these transactions acquired the securities for investment only and not with a view to or for

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sale in connection with any distribution thereof and appropriate legends were affixed to the securities issued in these transactions. Each of the recipients of securities in these

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transactions had adequate access, through employment, business, stockholder, other relationships or the delivery of an information statement, to information about the registrant.

**Item 16. Exhibits and Financial Statements**

**(a) Exhibits**

See the Exhibit Index beginning on page E-1, which follows the signature pages hereof and is incorporated herein by reference.

**(b) Financial Statement Schedules**

None.

**Item 17. Undertakings**

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the provisions described in Item 14, or otherwise, the registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of the registrant's counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

The undersigned registrant hereby undertakes that:

(1) For purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus as filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.

(2) For the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.



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	<b>Signature</b>	<b>Title</b>	<b>Date</b>
	*		
	_____ Elizabeth Stoner	Director	September 28, 2012
*By:	_____ /s/ MICHAEL S. WYZGA Michael S. Wyzga <i>Attorney-in-fact</i>		
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**EXHIBIT INDEX**

<b>Exhibit No.</b>	<b>Description</b>
1.1(25)	Underwriting Agreement
2.1(9)	Agreement and Plan of Merger, dated April 25, 2011
3.1(16)	Certificate of Incorporation, as amended
3.2(7)	By-Laws, as amended
3.3(18)	Restated Certificate of Incorporation to be effective upon the listing of the common stock on the NASDAQ Global Market
3.4(18)	Amended and Restated Bylaws to be effective upon the listing of the common stock on the NASDAQ Global Market
4.1(13)	Amended and Restated Stockholders' Agreement, dated as of May 17, 2011, as amended, by and among the Company and the stockholders party thereto
4.2(19)	Second Amended and Restated Stockholders' Agreement, dated as of February 13, 2012, as amended, by and among the Company, as successor to Radius Health, Inc., and the stockholders party thereto, to be effective upon the listing of the common stock on the NASDAQ Global Market
5.1(25)	Opinion of Latham & Watkins LLP
10.1(8)(9)	Clinical Trial Services Agreement and Work Statement NB-1, dated March 29, 2011, by and between the Company, as successor to Radius Health, Inc., and Nordic BioScience Clinical Development VII A/S
10.2(13)	Clinical Trial Services Agreement Amendment No. 1 to Work Statement NB-1, effective as of December 9, 2011, by and between the Company and Nordic Bioscience Clinical Development VII A/S
10.3(8)(22)	Clinical Trial Services Agreement Amendment No. 2 to Work Statement NB-1, effective as of June 18, 2012, by and between the Company and Nordic Bioscience Clinical Development VII A/S
10.4(6)	Amended and Restated Stock Issuance Agreement, dated May 16, 2011, by and between the Company, as successor to Radius Health, Inc., and Nordic BioScience Clinical Development VII A/S
10.5(9)	Side Letter, dated March 29, 2011, by and between the Company, as successor to Radius Health, Inc., and Nordic BioScience Clinical Development VII A/S
10.6(23)	Amendment, dated as of July 26, 2012, to Side Letter Agreement, dated March 29, 2011, by and between the Company and Nordic Bioscience Clinical Development VII A/S
10.7(8)(23)	Letter of Intent, dated as of July 26, 2012, by and between the Company and Nordic Bioscience Clinical Development VII A/S
10.8(8)(9)	License Agreement, dated September 27, 2005, by and between the Company, as successor to Nuvios, Inc., and SCRAS SAS, on behalf of itself and its Affiliates
10.9(8)(9)	Pharmaceutical Development Agreement, dated January 2, 2006, by and between the Company, as successor to Radius Health, Inc., and Beaufour Ipsen Industrie SAS

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<b>Exhibit No.</b>	<b>Description</b>
10.10(8)(9)	Amendment No. 1 to Pharmaceutical Development Agreement, dated January 1, 2007, by and between the Company, as successor to Radius Health, Inc., and Beaufour Ipsen Industrie SAS
10.11(9)	License Agreement Amendment No. 1, dated September 12, 2007, by and between the Company, as successor to Radius Health, Inc., and SCRAS SAS
10.12(8)(9)	Amendment No. 2 to Pharmaceutical Development Agreement, dated January 1, 2009, by and between the Company, as successor to Radius Health, Inc., and Beaufour Ipsen Industrie SAS
10.13(8)(9)	Amendment No. 3 to Pharmaceutical Development Agreement, dated June 16, 2010, by and between the Company, as successor to Radius Health, Inc., and Beaufour Ipsen Industrie SAS
10.14(8)(14)	Amendment No. 4 to Pharmaceutical Development Agreement, entered into as of December 15, 2011, by and between the Company and Beaufour Ipsen Industrie S.A.S.
10.15(10)	License Agreement Amendment No. 2, dated May 11, 2011, by and between the Company, as successor to Radius Health, Inc., and Ipsen Pharma SAS
10.16(10)	Series A-1 Convertible Preferred Stock Issuance Agreement, dated May 11, 2011, by and between the Company, as successor to Radius Health, Inc., and Ipsen Pharma SAS
10.17(9)	Development and Manufacturing Services Agreement, dated October 16, 2007, by and between the Company, as successor to Radius Health, Inc., and LONZA Sales Ltd.
10.18(8)(9)	Work Order No. 2, dated January 15, 2010, by and between the Company, as successor to Radius Health, Inc., and LONZA Sales Ltd.
10.19(8)(9)	Amendment No. 3 to Work Order No.2, dated December 15, 2010, by and between the Company, as successor to Radius Health, Inc., and LONZA Sales Ltd.
10.20(8)(15)	Work Order No. 4, dated December 23, 2011, by and between the Company, as successor to Radius Health, Inc., and LONZA Sales Ltd.
10.21(8)(9)	Development and Clinical Supplies Agreement, dated June 19, 2009, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.
10.22(8)(9)	Amendment No. 1, dated December 31, 2009, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.
10.23(8)(9)	Amendment No. 2, dated September 16, 2010, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.
10.24(8)(9)	Amendment No. 3, dated September 29, 2010, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.
10.25(8)(9)	Change Order Form Amendment No. 5, dated February 4, 2011, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.

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<b>Exhibit No.</b>	<b>Description</b>
10.26(8)(9)	Amendment No. 4, dated March 2, 2011, to the 3M Development Agreement, by and among the Company, as successor to Radius Health, Inc., and 3M Co. and 3M Innovative Properties Co.
10.27(8)(9)	Change Order Form #6, dated June 20, 2011, to the 3M Development Agreement, by and between the Company and 3M
10.28(8)(9)	Change Order Form #7, dated August 2, 2011, to the 3M Development Agreement, by and between the Company and 3M
10.29(8)(9)	Change Order Form #8, dated July 28, 2011, to the 3M Development Agreement, by and between the Company and 3M
10.30(8)(9)	Addendum to Change Order Form #8, dated August 16, 2011, to the 3M Development Agreement, by and between the Company and 3M
10.31(8)(9)	Change Order Form #9, dated August 12, 2011, to the 3M Development Agreement, by and between the Company and 3M
10.32(8)(9)	Change Order Form #10, dated October 3, 2011, to the 3M Development Agreement, by and between the Company and 3M
10.33(8)(20)	Change Order Form #12, dated February 23, 2012, to the 3M Development Agreement, by and between the Company and 3M
10.34(8)(16)	Change Order Form #13, dated May 1, 2012, to the 3M Development Agreement, by and between the Company and 3M
10.35(24)*	Change Order Form #14, dated August 15, 2012, to the 3M Development Agreement, by and between the Company and 3M
10.36(24)*	Change Order Form #15, dated July 16, 2012, to the 3M Development Agreement, by and between the Company and 3M
10.37(8)(9)	Laboratory Services and Confidentiality Agreement, dated March 31, 2004, by and between the Company, as successor to Nuvios, Inc., and Charles River Laboratories, Inc.
10.38(9)	First Amendment to Laboratory Services and Confidentiality Agreement, dated November 7, 2008, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories, Inc.
10.39(8)(9)	Letter of Payment Authorization, dated November 20, 2010, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories Preclinical Services Montréal Inc.
10.40(8)(9)	Letter of Payment Authorization, dated February 7, 2011, by and between the Company, as successor to Radius Health, Inc., and Charles River Laboratories Preclinical Services Montréal Inc.
10.41(24)*	Letter of Payment Authorization, dated September 24, 2012, by and between the Company and Charles River Laboratories, Inc.
10.42(8)(9)	License Agreement, dated June 29, 2006, by and between the Company, as successor to Radius Health, Inc., and Eisai Co., Ltd.
10.43(10)	Series A-1 Purchase Agreement, dated April 25, 2011, by and among the Company, as successor to Radius Health, Inc., and the Investors listed therein, as amended

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<b>Exhibit No.</b>	<b>Description</b>
10.44(17)	Amendment No. 1 to Series A-1 Convertible Preferred Stock Purchase Agreement, dated May 11, 2011
10.45(1)	Redemption Agreement, by and between MPM Acquisition Corp. and MPM Asset Management LLC, dated April 25, 2011
10.46(2)(3)	Radius Health, Inc. (f/k/a Nuvios, Inc.) 2003 Long-Term Incentive Plan, assumed in the Merger
10.47(2)(3)	Radius Health, Inc. First Amendment to 2003 Long-Term Incentive Plan effective as of December 15, 2006, assumed in the Merger
10.48(2)(3)	Radius Health, Inc. Second Amendment to 2003 Long-Term Incentive Plan effective as of March 28, 2008, assumed in the Merger
10.49(2)(3)	Radius Health, Inc. Third Amendment to 2003 Long-Term Incentive Plan effective as of November 14, 2008, assumed in the Merger
10.50(2)	Radius Health, Inc. 2003 Long-Term Incentive Plan Form of Stock Option Agreement
10.51(2)(3)	Radius Health, Inc. (f/k/a Nuvios, Inc.) 2003 Long-Term Incentive Plan Stock Option Agreement, dated October 28, 2004, by and between the Company, as successor to Nuvios, Inc., and Richard Lyttle for Option No. 04-103
10.52(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated July 12, 2007, by and between the Company, as successor to Radius Health, Inc., and Richard Lyttle for Option No. 07-08
10.53(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated May 8, 2008, by and between the Company, as successor to Radius Health, Inc., and Richard Lyttle for Option No. 08-09
10.54(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated December 3, 2008, by and between the Company, as successor to Radius Health, Inc., and Richard Lyttle for Option No. 08-14
10.55(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated February 15, 2006, by and between the Company, as successor to Radius Health, Inc., and Louis O'Dea for Option No. 06-07
10.56(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated July 12, 2007, by and between the Company, as successor to Radius Health, Inc., and Louis O'Dea for Option No. 07-07
10.57(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated May 8, 2008, by and between the Company, as successor to Radius Health, Inc., and Louis O'Dea for Option No. 08-05
10.58(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated December 3, 2008, by and between the Company, as successor to Radius Health, Inc., and Louis O'Dea for Option No. 08-10
10.59(2)(3)	Radius Health, Inc. (f/k/a Nuvios, Inc.) 2003 Long-Term Incentive Plan Stock Option Agreement, dated December 16, 2003, by and between the Company, as successor to Nuvios, Inc., and Gary Hattersley for Option No. 03-001

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<b>Exhibit No.</b>	<b>Description</b>
10.60(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated February 15, 2006, by and between the Company, as successor to Radius Health, Inc., and Gary Hattersley for Option No. 06-02
10.61(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated July 12, 2007, by and between the Company, as successor to Radius Health, Inc., and Gary Hattersley for Option No. 07-06
10.62(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated May 8, 2008, by and between the Company, as successor to Radius Health, Inc., and Gary Hattersley for Option No. 08-08
10.63(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated December 3, 2008, by and between the Company, as successor to Radius Health, Inc., and Gary Hattersley for Option No. 08-13
10.64(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated July 12, 2007, by and between the Company, as successor to Radius Health, Inc., and Nick Harvey for Option No. 07-09
10.65(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated May 8, 2008, by and between the Company, as successor to Radius Health, Inc., and Nick Harvey for Option No. 08-06
10.66(2)(3)	Radius Health, Inc. 2003 Long-Term Incentive Plan Incentive Stock Option Agreement, dated December 3, 2008, by and between the Company, as successor to Radius Health, Inc., and Nick Harvey for Option No. 08-11
10.67(3)(10)	Radius Health, Inc. 2003 Long-Term Incentive Plan Stock Option Agreement, dated October 12, 2010, by and between the Company and Alan Auerbach for Option No. 10-01
10.68(3)(10)	Radius Health, Inc. 2003 Long-Term Incentive Plan Stock Option Agreement, dated October 12, 2010, by and between the Company and Alan Auerbach for Option No. 10-02
10.69(4)	Radius Health, Inc. 2011 Equity Incentive Plan
10.70(4)	Form of Radius Health, Inc. 2011 Equity Incentive Plan Stock Option Agreement
10.71(4)	Radius Health, Inc. 2011 Equity Incentive Plan Stock Option Agreement, dated November 7, 2011, by and between the Company and Kurt C. Graves for Option No. 11-01
10.72(4)	Radius Health, Inc. 2011 Equity Incentive Plan Statutory Stock Option Agreement, dated November 7, 2011, by and between the Company and Kurt C. Graves for Option No. 11-02
10.73(2)	Employment Letter Agreement, dated July 2, 2004, by and between the Company, as successor to Nuvios, Inc., and C. Richard Edmund Lyttle
10.74(12)	Transition Agreement, dated December 1, 2011, by and between the Company and C. Richard Edmund Lyttle
10.75(20)	First Amendment to Transition Agreement, dated February 29, 2012, by and between the Company and C. Richard Edmund Lyttle

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<b>Exhibit No.</b>	<b>Description</b>
10.76(20)	Consulting Agreement, dated February 29, 2012, by and between the Company and C. Richard Edmund Lyttle
10.77(2)	Employment Letter Agreement, November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Gary Hattersley
10.78(2)	Employment Letter Agreement, dated January 30, 2006, by and between the Company, as successor to Radius Health, Inc., and Louis O'Dea
10.79(2)	Employment Letter Agreement, dated November 15, 2006, by and between the Company, as successor to Radius Health, Inc., and B. Nicholas Harvey
10.80(12)	Letter Agreement, dated December 1, 2011, by and between the Company and Michael S. Wyzga
10.81(18)	Employment Letter Agreement, dated November 9, 2011, by and between the Company and Louis Brenner
10.82(16)	Employment Letter Agreement, dated March 27, 2012, by and between the Company and Michael Franken
10.83(2)	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Ansbert K. Gadicke
10.84(2)	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and C. Richard Edmund Lyttle
10.85(2)	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Martin Münchbach
10.86(2)	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Jonathan Fleming
10.87(2)	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Kurt Graves
10.88(2)	Indemnification Agreement, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Elizabeth Stoner
10.89(2)	Indemnification Agreement, dated October 12, 2010, by and between the Company, as successor to Radius Health, Inc., and Alan Auerbach
10.90(18)	Indemnification Agreement, dated December 5, 2011, by and between the Company and Michael S. Wyzga
10.91(2)	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Michael Rosenblatt, M.D.
10.92(2)	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Christopher Mirabelli
10.93(2)	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Augustine Lawlor
10.94(2)	Indemnification Agreement, dated November 14, 2003, by and between the Company, as successor to Nuvios, Inc., and Edward Mascioli, M.D.

## Edgar Filing: Radius Health, Inc. - Form S-1/A

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<b>Exhibit No.</b>	<b>Description</b>
10.95(7)	Consent to Sublease, dated January 14, 2011, by and among the Company, as successor to Radius Health, Inc., Sonos, Inc., and Broadway/Hampshire Associates Limited Partnership
10.96(7)	Sublease, dated January 14, 2011, by and between the Company, as successor to Radius Health, Inc., and Sonos, Inc.
10.97(2)	Amended and Restated Warrant to Purchase Common Stock, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and SVB Financial Group
10.98(2)(3)	Warrant to Purchase Series A-1 Convertible Preferred Stock, dated May 17, 2011, by and between the Company, as successor to Radius Health, Inc., and Leerink Swann LLC
10.99(13)	Warrant to Purchase Series A-1 Convertible Preferred Stock issued by the Company to Leerink Swann LLC on November 18, 2011
10.100(13)	Warrant to Purchase Series A-1 Convertible Preferred Stock issued by the Company to Leerink Swann LLC on December 14, 2011
10.101(5)	Loan and Security Agreement, dated May 23, 2011, with General Electric Capital Corporation as agent and a lender, and Oxford Finance LLC as a lender
10.102(20)	First Amendment to Loan and Security Agreement, dated February 27, 2012, by and among the Company, General Electric Capital Corporation and Oxford Finance LLC
10.103(21)	Third Amendment to Loan and Security Agreement, dated May 29, 2012, by and among the Company, General Electric Capital Corporation and Oxford Finance LLC
10.104(5)	Promissory Note, dated May 23, 2011, issued by the Company to General Electric Capital Corporation in the principal amount of up to \$12,500,000
10.105(5)	Promissory Note, dated May 23, 2011, issued by the Company to Oxford Finance LLC in the principal amount of \$3,125,000
10.106(5)	Promissory Note, dated May 23, 2011, issued by the Company to Oxford Finance LLC in the principal amount of up to \$9,375,000
10.107(11)	Promissory Note, dated May 23, 2011, issued by the Company to Oxford Finance LLC in the principal amount of up to \$6,250,000
10.108(5)	Warrant to Purchase Shares of Series A-1 Convertible Preferred Stock, dated May 23, 2011, issued by the Company to GE Capital Equity Investments
10.109(5)	Warrant to Purchase Shares of Series A-1 Convertible Preferred Stock, dated May 23, 2011, issued by the Company to Oxford Finance LLC
10.110(11)	Warrant to Purchase Shares of Series A-1 Convertible Preferred Stock, dated November 21, 2011, issued by the Company to GE Capital Equity Investments
10.111(11)	Warrant to Purchase Shares of Series A-1 Convertible Preferred Stock, dated November 21, 2011, issued by the Company to Oxford Finance LLC
10.112(21)	Warrant to Purchase Shares of Series A-1 Convertible Preferred Stock, dated May 29, 2012, issued by the Company to GE Capital Equity Investments
10.113(21)	Warrant to Purchase Shares of Series A-1 Convertible Preferred Stock, dated May 29, 2012, issued by the Company to Oxford Finance LLC



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<b>Exhibit No.</b>	<b>Description</b>
10.114(7)	Lease by and between Broadway Hampshire Associates Limited Partnership and Radius Health, Inc. 201 Broadway Cambridge, Massachusetts, dated July 15, 2011
23.1(24)	Consent of Ernst & Young LLP, Independent Registered Public Accounting Firm
23.2(25)	Consent of Latham & Watkins LLP (included in Exhibit 5.1)
24.1(18)	Power of Attorney
101.INS(25)	XBRL Instance Document
101.SCH(25)	XBRL Taxonomy Extension Schema Document
101.CAL(25)	XBRL Taxonomy Extension Calculation Linkbase Document
101.LAB(25)	XBRL Taxonomy Extension Label Linkbase Document
101.PRE(25)	XBRL Taxonomy Extension Presentation Linkbase Document
101.DEF(25)	XBRL Taxonomy Extension Definition Linkbase Document

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- \*  
*Confidential treatment has been requested with respect to portions of this exhibit. Redacted portions of this exhibit have been filed separately with the SEC.*
- (1)  
*Incorporated by reference to our Current Report on Form 8-K filed on April 29, 2011.*
- (2)  
*Incorporated by reference to our Current Report on Form 8-K filed on May 23, 2011.*
- (3)  
*Share numbers and per share prices are presented pre-Reverse Split completed by Radius Health, Inc. on May 17, 2011.*
- (4)  
*Incorporated by reference to our Registration Statement on Form S-1/A filed on November 7, 2011.*
- (5)  
*Incorporated by reference to our Current Report on Form 8-K filed on May 27, 2011.*
- (6)  
*Incorporated by reference to our Quarterly Report on Form 10-Q/A filed on October 24, 2011.*
- (7)  
*Incorporated by reference to our Current Report on Form 8-K/A filed on September 30, 2011.*
- (8)  
*Confidential Treatment Granted. Redacted Portion Filed Separately with the SEC.*
- (9)  
*Incorporated by reference to our Current Report on Form 8-K/A filed on October 24, 2011.*
- (10)  
*Incorporated by reference to our Current Report on Form 8-K filed on November 7, 2011.*
- (11)  
*Incorporated by reference to our Current Report on Form 8-K filed on November 23, 2011.*
- (12)

## Edgar Filing: Radius Health, Inc. - Form S-1/A

*Incorporated by reference to our Current Report on Form 8-K filed on December 5, 2011.*

(13)

*Incorporated by reference to our Current Report on Form 8-K filed on December 15, 2011.*

(14)

*Incorporated by reference to our Current Report on Form 8-K filed on December 21, 2011.*

(15)

*Incorporated by reference to our Current Report on Form 8-K filed on December 30, 2011.*

(16)

*Incorporated by reference to our Quarterly Report on Form 10-Q filed on May 4, 2012.*

(17)

*Incorporated by reference to our Registration Statement on Form S-1 filed on June 23, 2011.*

(18)

*Incorporated by reference to our Registration Statement on Form S-1 filed on February 6, 2012.*

(19)

*Incorporated by reference to our Current Report on Form 8-K filed on February 17, 2012.*

(20)

*Incorporated by reference to our Current Report on Form 8-K filed on February 29, 2012.*

(21)

*Incorporated by reference to our Current Report on Form 8-K filed on June 4, 2012.*

(22)

*Incorporated by reference to our Current Report on Form 8-K filed on June 22, 2012.*

(23)

*Incorporated by reference to our Current Report on Form 8-K filed on August 1, 2012.*

(24)

*Filed herewith.*

(25)

*To be filed by amendment.*