

Kindred Biosciences, Inc.
Form 10-Q
May 03, 2017
Table of Contents

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

FORM 10-Q

(Mark One)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended March 31, 2017

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission File Number: 001-36225

KINDRED BIOSCIENCES, INC.
(Exact name of registrant as specified in its charter)

Delaware 46-1160142
(State of incorporation) (I.R.S. Employer Identification No.)
1555 Bayshore Highway, Suite 200
Burlingame, California 94010
(Address of principal executive office) (Zip code)
Registrant's telephone number: (650) 701-7901

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter time that the registrant was required to submit and post such files). Yes No

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 the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

| | | | |
|-------------------------|---|---------------------------|-------------------------------------|
| Large accelerated filer | <input type="checkbox"/> | Accelerated filer | <input type="checkbox"/> |
| Non-accelerated filer | <input checked="" type="checkbox"/> (Do not check if a smaller reporting company) | Smaller reporting company | <input type="checkbox"/> |
| | | Emerging growth company | <input checked="" type="checkbox"/> |

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If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by checkmark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

As of April 28, 2017, Kindred Biosciences, Inc. had outstanding 23,310,559 shares of common stock, \$0.0001 par value.

Table of Contents



Table of Contents

Kindred Biosciences, Inc.

TABLE OF CONTENTS

| Part No. | Item No. | Description | Page No. |
|----------|----------|--|-----------|
| I | | <u>FINANCIAL INFORMATION</u> | |
| | 1 | <u>Financial Statements</u> | <u>3</u> |
| | | <u>Condensed Consolidated Balance Sheets as of March 31, 2017 (unaudited) and December 31, 2016</u> | <u>3</u> |
| | | <u>Unaudited Condensed Consolidated Statements of Operations and Comprehensive Loss for the Three Months Ended March 31, 2017 and 2016</u> | <u>4</u> |
| | | <u>Unaudited Condensed Consolidated Statements of Cash Flows for the Three Months Ended March 31, 2017 and 2016</u> | <u>5</u> |
| | | <u>Notes to Unaudited Condensed Consolidated Financial Statements</u> | <u>6</u> |
| | 2 | <u>Management's Discussion and Analysis of Financial Condition and Results of Operations</u> | <u>13</u> |
| | 3 | <u>Quantitative and Qualitative Disclosures About Market Risk</u> | <u>22</u> |
| | 4 | <u>Controls and Procedures</u> | <u>22</u> |
| II | | <u>OTHER INFORMATION</u> | |
| | 1 | <u>Legal Proceedings</u> | <u>23</u> |
| | 1A | <u>Risk Factors</u> | <u>23</u> |
| | 2 | <u>Unregistered Sales of Equity Securities and Use of Proceeds</u> | <u>23</u> |
| | 3 | <u>Defaults Upon Senior Securities</u> | <u>23</u> |
| | 4 | <u>Mine Safety Disclosures</u> | <u>23</u> |
| | 5 | <u>Other Information</u> | <u>23</u> |
| | 6 | <u>Exhibits</u> | <u>24</u> |
| | | <u>Index to Exhibits</u> | <u>24</u> |
| | | <u>Signatures</u> | <u>25</u> |

Table of Contents

PART I - FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

Kindred Biosciences, Inc.

Condensed Consolidated Balance Sheets

(In thousands, except share and per share amounts)

| | March 31, 2017 (Unaudited) | December 31, 2016 |
|--|----------------------------------|----------------------|
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 19,866 | \$ 6,687 |
| Short-term investments | 45,272 | 50,068 |
| Other receivables | 2,118 | — |
| Prepaid expenses and other | 1,156 | 1,282 |
| Total current assets | 68,412 | 58,037 |
| Property and equipment, net | 2,585 | 2,441 |
| Long-term investments | 3,005 | 1,052 |
| Other assets | 46 | 46 |
| Total assets | \$ 74,048 | \$ 61,576 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| Current liabilities: | | |
| Accounts payable | \$ 994 | \$ 410 |
| Accrued compensation | 903 | 1,807 |
| Accrued liabilities | 950 | 1,650 |
| Total current liabilities | 2,847 | 3,867 |
| Long-term liability | 61 | 29 |
| Total liabilities | 2,908 | 3,896 |
| Commitments and contingencies (Note 6) | | |
| Stockholders' equity: | | |
| Common stock, \$0.0001 par value; 100,000,000 shares authorized; 23,179,228 and 19,916,290 shares issued and outstanding at March 31, 2017 and December 31, 2016, respectively | 2 | 2 |
| Additional paid-in capital | 158,763 | 138,810 |
| Accumulated other comprehensive loss | (32 |) (31 |
| Accumulated deficit | (87,593 |) (81,101 |
| Total stockholders' equity | 71,140 | 57,680 |
| Total liabilities and stockholders' equity | \$ 74,048 | \$ 61,576 |

The accompanying notes are an integral part of these condensed consolidated financial statements.

Table of Contents

Kindred Biosciences, Inc.

Condensed Consolidated Statements of Operations and Comprehensive Loss

(In thousands, except per share amounts)

(Unaudited)

| | Three months ended March 31, | |
|---|---------------------------------|-----------|
| | 2017 | 2016 |
| Operating expenses: | | |
| Research and development | \$3,780 | \$3,437 |
| General and administrative | 2,843 | 2,020 |
| Restructuring costs | — | 655 |
| Total operating expenses | 6,623 | 6,112 |
| Loss from operations | (6,623) | (6,112) |
| Interest and other income, net | 131 | 52 |
| Net loss | (6,492) | (6,060) |
| Change in unrealized gains (losses) on available-for-sale securities | (1) | 68 |
| Comprehensive loss | \$(6,493) | \$(5,992) |
| Net loss per share, basic and diluted | \$(0.30) | \$(0.31) |
| Weighted-average number of common shares outstanding, basic and diluted | 21,516 | 19,836 |

The accompanying notes are an integral part of these condensed consolidated financial statements.

Table of Contents

Kindred Biosciences, Inc.

Condensed Consolidated Statements of Cash Flows

(In thousands)

(Unaudited)

| | Three months ended March 31, | |
|---|---------------------------------|-----------|
| | 2017 | 2016 |
| Cash Flows from Operating Activities | | |
| Net loss | \$(6,492) | \$(6,060) |
| Adjustments to reconcile net loss to net cash used in operating activities: | | |
| Stock-based compensation expense | 1,241 | 762 |
| Depreciation and amortization expense | 46 | 38 |
| Amortization of premium on marketable securities | 88 | 77 |
| Changes in operating assets and liabilities: | | |
| Prepaid expenses and other | 98 | (150) |
| Accounts payable | 726 | 117 |
| Accrued liabilities and accrued compensation | (1,572) | (1,268) |
| Net cash used in operating activities | (5,865) | (6,484) |
| Cash Flows from Investing Activities | | |
| Purchase of investments | (16,356) | (33,673) |
| Sale of investments | 1,600 | — |
| Maturities of investments | 17,510 | 30,440 |
| Purchase of property and equipment | (332) | (664) |
| Net cash provided by (used in) investing activities | 2,422 | (3,897) |
| Cash Flows from Financing Activities | | |
| Exercise of stock options | 76 | — |
| Net proceeds from sale of common stock | 16,546 | — |
| Net cash provided by financing activities | 16,622 | — |
| Net change in cash and cash equivalents | 13,179 | (10,381) |
| Cash and cash equivalents at beginning of period | 6,687 | 19,992 |
| Cash and cash equivalents at end of period | \$19,866 | \$9,611 |

Supplemental disclosure of non-cash investing and financing activities:

| | | |
|--|-------|----|
| Purchase of property and equipment included in accounts payable and accrued liabilities | 28 | 98 |
| Proceeds due from sale of common stock | 2,090 | — |

The accompanying notes are an integral part of these condensed consolidated financial statements.

Table of Contents

Kindred Biosciences, Inc.

Notes to Condensed Consolidated Financial Statements

(Unaudited)

1. Description of Business, Basis of Presentation and Summary of Significant Accounting Policies

Kindred Biosciences, Inc. ("KindredBio", "we", "us" or "our") was incorporated on September 25, 2012 (inception) in the State of Delaware. On April 25, 2016, we filed a Certificate of Incorporation with the State of Delaware for a wholly owned subsidiary, KindredBio Equine, Inc. ("Subsidiary"). The Subsidiary has one class of capital stock which is designated common stock, \$0.0001 par value per share. The authorized number of shares of common stock for the Subsidiary is 1,000.

We are a biopharmaceutical company focused on saving and improving the lives of pets. Our activities since inception have consisted principally of raising capital, establishing facilities, recruiting management and technical staff and performing research and development and advancing our product candidates seeking regulatory approval. Our headquarters are located in Burlingame, California.

We are subject to risks common to companies in the biotechnology and pharmaceutical industries. There can be no assurance that our research and development will be successfully completed, that adequate patent or other intellectual property protection for our technology will be obtained, that any products developed will obtain necessary government regulatory approval or that any approved products will be commercially viable. We operate in an environment of substantial competition from other animal health companies. In addition, we are dependent upon the services of our employees and consultants, as well as third-party contract research organizations and manufacturers. The accompanying unaudited interim condensed consolidated financial statements ("financial statements") have been prepared pursuant to the rules and regulations of the Securities and Exchange Commission (SEC). Accordingly, they do not include all of the information and footnotes required by accounting principles generally accepted in the United States of America ("U.S. GAAP") for complete financial statements. These unaudited interim condensed consolidated financial statements should be read in conjunction with the audited consolidated financial statements and notes thereto for the year ended December 31, 2016 included in our annual report on Form 10-K as filed with the SEC on March 1, 2017. In the opinion of management, all adjustments, consisting of a normal and recurring nature, considered necessary for a fair presentation, have been included in these unaudited interim condensed consolidated financial statements.

The accompanying condensed consolidated financial statements include the accounts of the Company and its wholly owned Subsidiary. All inter-company accounts and transactions have been eliminated in consolidation.

Stock Offerings

In January 2015, we filed a shelf registration statement on Form S-3 to offer and sell, from time to time, equity securities in one or more offerings up to a total dollar amount of \$150.0 million. On December 19, 2016, we entered into an At Market Issuance Sales Agreement ("Sales Agreement") with FBR Capital Markets & Co. ("FBR"), pursuant to which we may issue and sell shares of our common stock having an aggregate offering price up to \$30.0 million, from time to time, through FBR as our sales agent. In conjunction with the Sales Agreement, FBR will receive compensation based on an aggregate of 3% of the gross proceeds on the sale price per share of our common stock. Any sales made pursuant to the Sales Agreement are deemed an "at-the-market" offering and would be made pursuant to the shelf registration statement on Form S-3. In the quarter ended March 31, 2017, we sold 2,990,604 shares through FBR under the Sales Agreement and received approximately \$19,346,000 in gross proceeds. Net proceeds after deducting approximately \$582,000 in commissions and approximately \$128,000 in offering costs were approximately \$18,636,000, of which \$2,090,000 was recorded in accounts receivable at March 31, 2017 and received in April 2017. Subsequent to March 31, 2017 and through April 30, 2017, we sold an additional 91,811 shares under the Sales Agreement and received approximately \$639,000 in net proceeds after deducting commissions, of which \$60,000 was recorded in accounts receivable at April 30, 2017 and received in May 2017.

Liquidity

We have incurred losses and negative cash flows from operations and have not generated any revenue since our inception. We expect to continue to incur losses and negative cash flows, which will increase significantly from historical levels as we expand our product development activities, seek regulatory approvals for our product candidates, establish a biologics

6

Table of Contents

manufacturing capability, and begin to commercialize any approved products. To date, we have been funded primarily through sales of our former convertible preferred stock, the sale of our common stock in our initial public offering in December 2013, the sale of our common stock in our April 2014 follow-on public offering and periodic sales of our common stock under the ATM in the first quarter of 2017. We believe that our cash, cash equivalents, short-term and long-term investments totaling \$68,143,000 as of March 31, 2017, are sufficient to fund our planned operations for at least the next 24 months.

If we require additional funding for operations, we may seek such funding through public or private equity or debt financings or other sources, such as corporate collaborations and licensing arrangements. We may not be able to obtain financing on acceptable terms, or at all, and we may not be able to enter into corporate collaborations or licensing arrangements. The terms of any financing may result in dilution or otherwise adversely affect the holdings or the rights of our stockholders.

Use of Estimates

The preparation of financial statements and related disclosures in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the consolidated financial statements, and the reported amounts of revenues and expenses during the reporting periods. Significant estimates and assumptions reflected in these condensed consolidated financial statements include, but are not limited to, the valuation of stock-based awards, the realization of deferred tax assets, the recoverability of long-lived assets and the accrual of research and development expenses. Estimates are periodically reviewed in light of changes in circumstances, facts and experience. Actual results could differ from those estimates.

Comprehensive Loss

Our comprehensive loss includes the change in unrealized gains or losses on available-for-sale securities. The cumulative amount of gains or losses are reflected as a separate component of stockholders' equity in the condensed consolidated balance sheets as accumulated other comprehensive income (loss).

Recently Issued Accounting Pronouncements

In May 2014, Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2014-09, "Revenue from Contracts with Customers". This new standard will replace most of the existing revenue recognition guidance in U.S. GAAP when it becomes effective and permits the use of either the retrospective or cumulative effect transition method. The new standard, as amended, becomes effective in the first quarter of fiscal year 2018, but allows the adoption of the standard one year earlier if we so choose. To-date we do not have any revenue, but we continue to assess the effect of this new standard.

In November 2015, the FASB issued ASU No. 2015-17, "Balance Sheet Classification of Deferred Taxes", requiring all deferred tax assets and liabilities, and any related valuation allowance, to be classified as non-current on the consolidated balance sheet. The classification change for all deferred taxes as non-current simplifies entities' processes as it eliminates the need to separately identify the net current and net non-current deferred tax asset or liability in each jurisdiction and allocate valuation allowances. The update is effective for public business entities issuing consolidated financial statements for the annual periods beginning after December 15, 2016, and interim periods within those annual periods. We adopted this standard as of March 31, 2017 and the adoption did not have a material impact on our condensed consolidated financial statements.

In January 2016, the FASB issued ASU No. 2016-01, "Financial Instruments—Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities", which amends the guidance in U.S. GAAP on the classification and measurement of financial instruments and also amends certain disclosure requirements associated with the fair value of financial instruments. The new guidance is effective for fiscal years beginning after December 15, 2017, including interim periods within those fiscal years. We are currently evaluating the new guidance and have not determined the impact this standard may have on our condensed consolidated financial statements.

In February 2016, the FASB issued ASU No. 2016-02, "Leases (Topic 842)", requiring organizations that lease assets—referred to as “lessees”—to recognize on the consolidated balance sheet the assets and liabilities for the rights and obligations created by those leases. Under the new guidance, a lessee will be required to recognize assets and liabilities for leases with lease terms of more than 12 months. The ASU on leases will take effect for public companies for fiscal years, and interim periods

7

Table of Contents

within those fiscal years, beginning after December 15, 2018. We are currently evaluating the new guidance and have not determined the impact this standard may have on our condensed consolidated financial statements.

We do not believe there are any other recently issued standards not yet effective that will have a material impact on our consolidated financial statements when the standards become effective.

2. Fair Value Measurements

Certain assets and liabilities are carried at fair value. Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value must maximize the use of observable inputs and minimize the use of unobservable inputs. A fair value hierarchy based on three levels of inputs, of which the first two are considered observable and the last is considered unobservable, is used to measure fair value:

Level 1: Quoted prices in active markets for identical assets or liabilities.

Level 2: Observable inputs (other than Level 1 quoted prices) such as quoted prices in active markets for similar assets or liabilities, quoted prices in markets that are not active for identical or similar assets or liabilities, or other inputs that are observable or can be corroborated by observable market data.

Level 3: Unobservable inputs that are supported by little or no market activity and that are significant to determining the fair value of the assets or liabilities, including pricing models, discounted cash flow methodologies and similar techniques.

The carrying amount of financial instruments, including cash and cash equivalents, accounts payable and accrued liabilities approximate fair value due to the short maturities of these financial instruments. Financial assets, which consist of money market funds and available-for-sale securities, are measured at fair value on a recurring basis.

Financial assets, which consist of money market funds and available-for-sale securities, are measured at fair value on a recurring basis and are summarized as follows (in thousands):

Fair Value Measurements as of March 31, 2017

| Description | Total | Quoted Prices in Active Markets (Level 1) | Significant Other Observable Inputs (Level 2) | Unobservable Inputs (Level 3) |
|------------------------------|----------|--|---|-------------------------------------|
| Cash equivalents: | | | | |
| Money market funds | \$3,763 | \$ 3,763 | \$ — | \$ — |
| Commercial paper | 15,296 | — | 15,296 | — |
| Short-term investments: | | | | |
| U.S. treasury bonds | 3,004 | 3,004 | — | — |
| U.S. government agency notes | 16,000 | — | 16,000 | — |
| Commercial paper | 5,413 | — | 5,413 | — |
| Corporate notes | 20,855 | — | 20,855 | — |
| Long-term investments: | | | | |
| Corporate notes | 3,005 | — | 3,005 | — |
| | \$67,336 | \$ 6,767 | \$ 60,569 | \$ — |

Table of Contents

| Description | Fair Value Measurements as of December 31, 2016 | | | |
|-------------------------------|---|---|---|-------------------------------|
| | Total | Quoted Prices in Active Markets (Level 1) | Significant Other Observable Inputs (Level 2) | Unobservable Inputs (Level 3) |
| Cash equivalents: | | | | |
| Money market funds | \$3,157 | \$3,157 | \$ — | \$ — |
| Commercial paper | 850 | — | 850 | — |
| Short-term investments: | | | | |
| U.S. treasury bills | 5,997 | 5,997 | — | — |
| Commercial paper | 4,228 | — | 4,228 | — |
| U.S. government agency notes | 13,550 | — | 13,550 | — |
| U.S. treasury bonds and notes | 11,015 | 11,015 | — | — |
| Corporate notes | 15,278 | — | 15,278 | — |
| Long-term investments: | | | | |
| Corporate notes | 1,052 | — | 1,052 | — |
| | \$55,127 | \$20,169 | \$34,958 | \$ — |

During the three months ended March 31, 2017, there were no transfers of assets between Level 1, Level 2 or Level 3 of the fair value hierarchy.

At March 31, 2017 and December 31, 2016, we did not have any financial liabilities which were measured at fair value on a recurring basis.

3. Investments

We classify all highly-liquid investments with stated maturities of greater than three months from the date of purchase and remaining maturities of less than one year as short-term investments. Investments with maturities beyond one year may be classified as short-term based on their highly liquid nature and because such investments are viewed as being available to support current operations. We classify and account for investments as available-for-sale and reflect realized gains and losses using the specific identification method. Changes in market value, if any, excluding other-than-temporary impairments, are reflected in other comprehensive income (loss).

The fair value of available-for-sale investments by type of security at March 31, 2017 was as follows (in thousands):

| | Amortized Cost | Gross Unrealized Gains | Gross Unrealized Losses | Fair Value |
|--------------------------------------|----------------|------------------------|-------------------------|------------|
| Short-term investments: | | | | |
| U.S. government agency notes | \$ 16,009 | \$ — | \$ (9) | \$16,000 |
| U.S. treasury bonds | 3,005 | — | (1) | 3,004 |
| Commercial paper | 5,413 | — | — | 5,413 |
| Corporate notes | 20,875 | 1 | (21) | 20,855 |
| | 45,302 | 1 | (31) | 45,272 |
| Long-term investments: | | | | |
| Corporate notes | 3,007 | 1 | (3) | 3,005 |
| Total available-for-sale investments | \$ 48,309 | \$ 2 | \$ (34) | \$48,277 |

Table of Contents

The fair value of available-for-sale investments by type of security at December 31, 2016 was as follows (in thousands):

| | Amortized Cost | Gross Unrealized Gains | Gross Unrealized Losses | Fair Value |
|--------------------------------------|-------------------|------------------------------|-------------------------------|---------------|
| Short-term investments: | | | | |
| U.S. treasury bills | \$ 5,996 | \$ 1 | \$ — | \$5,997 |
| Commercial paper | 4,228 | — | — | \$4,228 |
| U.S. government agency notes | 13,552 | 1 | (3) | 13,550 |
| U.S. treasury bonds and notes | 11,015 | 1 | (1) | 11,015 |
| Corporate notes | 15,305 | — | (27) | 15,278 |
| | 50,096 | 3 | (31) | 50,068 |
| Long-term investments: | | | | |
| Corporate notes | 1,055 | — | (3) | 1,052 |
| Total available-for-sale investments | \$ 51,151 | \$ 3 | \$ (34) | \$51,120 |

4. Accrued Liabilities

Accrued liabilities consisted of the following (in thousands):

| | March 31, 2017 | December 31, 2016 |
|--|----------------------|----------------------|
| Accrued consulting | \$266 | \$ 106 |
| Accrued research and development costs | 509 | 1,390 |
| Other expenses | 154 | 124 |
| Deferred rent | 82 | 59 |
| | 1,011 | 1,679 |
| Less current portion | (950) | (1,650) |
| Long-term liability (deferred rent) | \$61 | \$ 29 |

Table of Contents

5. Stock-Based Awards and Common Stock

Common Stock

During the quarter ended March 31, 2017, we sold 2,990,604 shares of common stock under the Sales Agreement (see Note 1).

The table below shows the number of shares of common stock underlying options granted to employees, directors and consultants, the assumptions used in the Black-Scholes option pricing model used to value those options and the resulting weighted-average grant date fair value per share:

| Stock Option Plan | Three months ended March 31, | |
|--|---------------------------------|---------|
| | 2017 | 2016 |
| Shares underlying options granted | 920,700 | 682,833 |
| Weighted-average exercise price | \$6.39 | \$3.39 |
| Weighted average risk- free interest rate | 1.98 % | 1.65 % |
| Weighted average expected term (years) | 6.0 | 6.1 |
| Weighted average expected volatility | 70% | 82% |
| Expected dividend yield | — | — |
| Weighted-average grant date fair value per share | \$4.04 | \$2.38 |

In May 2016, we adopted the 2016 Equity Incentive Plan (the "2016 Plan"), and reserved 3,000,000 shares of our common stock for issuance under the 2016 Plan. The 2016 Plan is the successor to our 2012 Equity Incentive Plan (the "2012 Plan"), which was retired on May 23, 2016 upon stockholders' approval of our 2016 Plan. All awards made under the 2012 Plan shall remain subject to the terms of that plan. Options granted under the 2016 Plan may be either incentive stock options or nonstatutory stock options. The 2016 Plan also provides for the grant of stock appreciation rights, restricted stock awards, restricted stock unit awards, performance stock awards, performance cash awards and other stock awards. The exercise price of a stock option may not be less than 100% of the closing price of our common stock on the date of the grant. If, at any time we grant an incentive stock option, and the optionee directly or by attribution owns stock possessing more than 10% of the total combined voting power of all classes of KindredBio stock, the option price shall be at least 110% of the fair value and shall not be exercisable more than five years after the date of grant. Options generally vest over a period of one or four years from the date of grant. Options granted under the 2016 Plan expire no later than 10 years from the date of grant. As of March 31, 2017, there were 993,050 option shares outstanding, 250,000 restricted stock awards issued but unvested, and 1,756,950 shares available for future grants under the 2016 Plan.

Our Employee Stock Purchase Plan (the "Stock Purchase Plan"), adopted in December 2014, permits eligible employees to purchase common stock at a discount through payroll deductions during defined six-month consecutive offering periods beginning December 1 with the exception of our first offering period which commenced on January 1, 2015 for a five month duration. The price at which the stock is purchased is equal to the lower of 85% of the fair market value of the common stock on the first day of the offering or 85% of the fair market value of our common stock on the purchase date. A total of 200,000 shares of common stock are authorized for issuance under the Stock Purchase Plan. A participant may purchase a maximum of 2,000 shares of common stock during each offering period, not to exceed \$25,000 worth of common stock on the offering date during each calendar year. We use the Black-Scholes option pricing model, in combination with the discounted employee price, in determining the value of the Stock Purchase Plan expense to be recognized during each offering period. The following assumptions were used in the Black-Scholes option pricing model to calculate employee stock-based compensation:

Table of Contents

| Stock Purchase Plan | Three months ended March 31, | |
|--|------------------------------------|--------|
| | 2017 | 2016 |
| Weighted average risk-free interest rate | 0.60% | 0.42% |
| Weighted average expected term (years) | 0.5 | 0.5 |
| Weighted average expected volatility | 74.2% | 72.7% |
| Expected dividend yield | — | — |
| Weighted-average grant date fair value per share | \$1.32 | \$1.28 |

We did not issue any common stock under the Stock Purchase Plan for the three months ended March 31, 2017. At March 31, 2017 and December 31, 2016, we had an outstanding liability of \$71,000 and \$17,000, respectively, which is included in accrued compensation on the condensed consolidated balance sheets, for employee contributions to the Stock Purchase Plan for shares pending issuance at the end of the next offering period.

We recorded stock-based compensation expense as follows (in thousands):

| | Three months ended March 31, | |
|----------------------------|---------------------------------------|-------|
| | 2017 | 2016 |
| Research and development | \$409 | \$259 |
| General and administrative | 832 | 503 |
| | \$1,241 | \$762 |

We had an aggregate of approximately \$7,812,000 of unrecognized stock-based compensation expense for options outstanding and the Stock Purchase Plan as of March 31, 2017 which is expected to be recognized over a weighted-average period of 2.5 years.

On January 23, 2017, we granted 250,000 shares of restricted stock awards to four employees. Shares will vest 25% on each one year anniversary of the grant date provided that the employee is in the employment of the Company on such vesting date. The total stock-based compensation expense related to these awards is \$1,600,000. As of March 31, 2017, we have an aggregate of approximately \$1,526,000 unrecognized stock-based compensation expense for restricted stock awards outstanding which is expected to be recognized over a weighted-average period of 3.8 years.

6. Commitments and Contingencies

In April 2014, we entered into new non-cancellable operating leases for 2,145 square feet of laboratory space through May 2017 and 6,900 square feet of office space through November 2017. In January, August and November 2015, we amended our original operating lease for laboratory space to expand the facility with an additional 2,431 square feet, 131 square feet and 123 square feet, respectively, of manufacturing space through May 2017. In August 2015, we entered into a new non-cancelable operating lease for 3,126 square feet of office space in San Diego, California through September 2019. In February and October 2016, we further amended our original operating lease for laboratory space to further expand the facility with an additional 3,599 square feet and 2,326 square feet, respectively, of laboratory space through May 2017. Commencing on June 1, 2017, the non-cancellable operating lease for the entire existing laboratory space of a total 10,755 square feet is extended for another 5 years through May 2022. In February 2017, we further amended the operating lease for laboratory space with an additional 721 square feet through May 2022. In April 2017, we renewed our headquarter office lease for 6,900 square feet of office space in Burlingame, California through November 30, 2020. In addition, we have three equipment leases expiring through 2020.

As of March 31, 2017 (including amendments entered into after period end), we are obligated to make minimum lease payments under non-cancelable operating leases as follows (in thousands):

Table of Contents

| Year ending December 31, | Lease Payments |
|--------------------------|-------------------|
| 2017 (remaining of year) | \$ 538 |
| 2018 | 760 |
| 2019 | 756 |
| 2020 | 678 |
| 2021 and after | 653 |
| Total | \$ 3,385 |

7. Net Loss Per Share

Basic and diluted net loss per share was calculated as follows (in thousands, except per share amounts):

| | Three months ended March 31, | |
|---|---------------------------------|------------|
| | 2017 | 2016 |
| Basic and diluted net loss per share: | | |
| Numerator: | | |
| Net loss | \$ (6,492) | \$ (6,060) |
| Denominator: | | |
| Weighted-average number of common shares outstanding, basic and diluted | 21,516 | 19,836 |
| Net loss per share, basic and diluted | \$ (0.30) | \$ (0.31) |

There was no difference between the Company's net loss and the net loss attributable to common stockholders for all periods presented.

Stock options to purchase 4,458,279 shares of common stock and 250,000 shares unvested restricted stock awards as of March 31, 2017, were excluded from the computation of diluted net loss per share attributable to common stockholders for the three months ended March 31, 2017, because their effect was anti-dilutive.

Stock options to purchase 3,543,683 shares of common stock were excluded from the computation of diluted net loss per share attributable to common stockholders for the three months ended March 31, 2016, because their effect was anti-dilutive.

8. Subsequent Event

On April 6, 2017, we renewed our headquarters office lease of 6,900 square feet in Burlingame, California for another 3 years from December 1, 2017 to November 30, 2020.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

In this section, "Kindred," "we," "our," "ours," "us" and the "Company" refer to Kindred Biosciences, Inc. and our wholly owned subsidiary KindredBio Equine, Inc. You should read the following discussion and analysis of our consolidated financial condition and results of operations together with our consolidated financial statements and the related notes and other financial information included elsewhere in this Quarterly Report on Form 10-Q. Some of the information contained in this discussion and analysis or set forth elsewhere in this Quarterly Report on Form 10-Q consists of forward-looking statements such as statements regarding our expectations about the trials, regulatory approval, manufacturing, distribution and commercialization of our current and future product candidates and statements regarding our anticipated revenues, expenses, margins, profits and use of cash. In this Quarterly Report on Form 10-Q, the words "anticipates," "believes," "expects," "intends," "future," "could," "estimates," "plans,"

Table of Contents

“would,” “should,” “potential,” “continues” and similar words or expressions (as well as other words or expressions referencing future events, conditions or circumstances) often identify forward-looking statements.

These forward-looking statements are based on our current expectations. These statements are not promises or guarantees, but involve known and unknown risks, uncertainties and other important factors that may cause our actual results to be materially different from any future results expressed or implied by the forward-looking statements. These risks and uncertainties include, but are not limited to, the following: our limited operating history and expectations of losses for the foreseeable future; the absence of revenue from our product candidates for the foreseeable future; our potential inability to obtain any necessary additional financing; our substantial dependence on the success of our lead product candidates, which may not be successfully commercialized even if they are approved for marketing; the effect of competition; our potential inability to obtain regulatory approval for our existing or future product candidates; our dependence on third parties to conduct some of our development activities; our dependence upon third-party manufacturers for supplies of our product candidates; uncertainties regarding the outcomes of trials pertaining to our product candidates; our potential failure to attract and retain senior management and key scientific personnel; uncertainty about our ability to develop a satisfactory sales organization; our significant costs of operating as a public company; our potential inability to obtain patent protection and other intellectual property protection for our product candidates; potential claims by third parties alleging our infringement of their patents and other intellectual property rights; our potential failure to comply with regulatory requirements, which are subject to change on an ongoing basis; the potential volatility of our stock price; and the significant control over our business by our principal stockholders and management.

For a further description of these risks and uncertainties and other risks and uncertainties that we face, please see the “Risk Factors” sections that are contained in our filings with the U.S. Securities and Exchange Commission (the SEC), including the “Risk Factors” section of our Annual Report on Form 10-K for the year ended December 31, 2016, which was filed with the SEC on March 1, 2017, and any subsequent updates that may be contained in the “Risk Factors” sections of this Quarterly Report on Form 10-Q and our other Quarterly Reports on Form 10-Q filed with the SEC. As a result of the risks and uncertainties described above and in our filings with the SEC, actual results may differ materially from those indicated by the forward-looking statements made in this Quarterly Report on Form 10-Q. Forward-looking statements contained in this Quarterly Report on Form 10-Q speak only as of the date of this report and we undertake no obligation to update or revise these statements, except as may be required by law.

Table of Contents

Overview

We are a development stage biopharmaceutical company focused on saving and improving the lives of pets. Our mission is to bring to our pets the same kinds of safe and effective medicines that our human family members enjoy. Our core strategy is to identify compounds and targets that have already demonstrated safety and efficacy in humans and to develop therapeutics based on these validated compounds and targets for pets, primarily dogs, cats and horses. We believe this approach will lead to shorter development times and higher approval rates than pursuing new, non-validated compounds and targets. We have submitted all major technical sections of the New Animal Drug Application, or NADA, to the Food and Drug Administration, or FDA, for two product candidates. In addition, we have multiple other product candidates, including several biologics, in various stages of development. We believe there are significant unmet medical needs for pets, and that the pet therapeutics segment of the animal health industry is likely to grow substantially as new therapeutics are identified, developed and marketed specifically for pets.

Since the announcement of positive top lines results from our pivotal trial of the IV form of Zimeta (dipyron injection) for the control of pyrexia (fever) in horses, we have submitted all major technical sections of the NADA to the FDA before the end of the first quarter of 2016. We have received the technical section complete letter for effectiveness from the FDA and responded to comments from the FDA regarding the CMC and safety technical section. We anticipate the approval of Zimeta including product launch in the second half of 2017, assuming that the FDA finds our responses acceptable. The regulatory approval is expected, but is subject to the typical risks inherent in such a process. We have initiated pre-launch activities including build-out of a small commercial team, preparations for distribution and commercial scale-up and manufacturing.

We have also completed our formulation development of the oral gel form of Zimeta for the treatment of fever in horses. All clinical sites have been initiated for the pivotal effectiveness trial for the oral form of Zimeta (dipyron oral gel) and patient enrollment has begun. The target animal safety study is expected to commence in the second quarter of 2017 as well. The oral gel form of dipyron is expected to be an additional valuable tool for equine veterinarians to provide horse owners with an easy-to-administer fever reducing agent for the horse.

We announced positive topline results in May 2016 upon the successful completion of a pharmacokinetic study and a randomized, placebo-controlled pivotal study of Mirataz (mirtazapine transdermal ointment), formerly known as KIND-010, for the management of weight loss in cats. All major technical sections of the NADA have been filed. We have received the technical section complete letter for effectiveness from FDA, responded to comments from FDA regarding the CMC technical section, and are in the process of responding to comments from FDA on our safety technical section. Based on the feedback, we anticipate the approval of Mirataz in the second half of 2017, assuming the FDA finds the submissions acceptable, and the launch of the drug shortly after approval. The regulatory approval is expected, but is subject to the typical risks inherent in such a process.

We are currently developing KIND-014 for the treatment of equine gastric ulcers in horses, KIND-015 for the management of clinical signs associated with equine metabolic syndrome, epoCat™ (feline recombinant erythropoietin) for the control of non-regenerative anemia in cats and KIND-011, an anti-TNF monoclonal antibody targeting sick or septic foals. We expect to continue pilot field efficacy studies for the four product candidates in 2017. In addition to early stage pilot field studies of anti-cytokine antibodies for atopic dermatitis in dogs, we are also developing multiple other products, including interleukin antibodies and canine checkpoint inhibitors. In all, we have over 20 programs for various indications for dogs, cats, and horses.

In addition to the product candidates discussed above, we are in the early stages of development for multiple additional indications, including several biologics, with the potential to attain approval for one or more products annually for several years. We plan to commercialize our products in the United States through a direct sales force complemented by selected distributor relationships, and in the EU through distributors and other third parties. Because we seek to identify product candidates that are not protected by third-party patents, we typically do not need to obtain

licenses or make any upfront, milestone or royalty payments in connection with our product candidates.

We have constructed a Good Manufacturing Practice, or GMP, biologics manufacturing plant and it is currently undergoing commissioning, allowing us to proceed to GMP manufacturing of our feline erythropoietin product candidate by the mid-2017.

Table of Contents

We are an early stage company with no products approved for marketing and sale, and we have not generated any revenue. We have incurred significant net losses since our inception. We incurred cumulative net losses of \$87,593,000 through March 31, 2017. These losses have resulted principally from costs incurred in connection with investigating and developing our product candidates, research and development activities and general and administrative costs associated with our operations.

Historically, our funding has been a combination of private and public offerings, including our initial public offering in December 2013 that provided us with net proceeds of \$54,871,000 and a follow-on public offering in April 2014 that provided us with net proceeds of \$58,065,000. In December 2016, we entered into an At Market Issuance, or ATM, Sales Agreement with FBR Capital Markets & Co., or FBR, which has provided us with net proceeds of \$16,546,000, through sale of our common stock in the first quarter of 2017, after deducting commissions and offering costs (see Note 1). As of March 31, 2017, we had cash, cash equivalents and investments of \$68,143,000.

For the foreseeable future, we expect to continue to incur losses, which will increase significantly from historical levels as we expand our product development activities, seek regulatory approvals for our product candidates and begin to commercialize them if they are approved by the Center for Veterinary Medicine branch, or CVM, of the FDA, the U.S. Department of Agriculture, or USDA, or the European Medicines Agency, or EMA. If we are required to further fund our operations, we expect to do so through public or private equity offerings, debt financings, corporate collaborations and licensing arrangements. We cannot assure you that such funds will be available on terms favorable to us, if at all. Arrangements with collaborators or others may require us to relinquish rights to certain of our technologies or product candidates. In addition, we may never successfully complete development of, obtain adequate patent protection for, obtain necessary regulatory approval, or achieve commercial viability for any product candidate. If we are not able to raise additional capital on terms acceptable to us, or at all, as and when needed, we may be required to curtail our operations, and we may be unable to continue as a going concern.

Critical Accounting Policies and Significant Judgments and Estimates

Our management's discussion and analysis of financial condition and results of operations is based on our condensed consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States, or U.S. GAAP. The preparation of our condensed consolidated financial statements and related disclosures requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities, and revenue, costs and expenses and related disclosures during the reporting periods. On an ongoing basis, we evaluate our estimates and judgments, including those described below. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions. There have been no significant changes to our critical accounting policies since the beginning of our fiscal year. Our critical accounting policies are described in the "Management's Discussion and Analysis of Financial Condition and Results of Operations" section of our Annual Report on Form 10-K for the year ended December 31, 2016, which was filed with the SEC on March 1, 2017.

Table of Contents

Results of Operations

The following table summarizes the results of our operations for the periods indicated (in thousands):

| | Three months ended March 31, | |
|--------------------------------|---------------------------------|-----------|
| | 2017 | 2016 |
| Operating expenses: | | |
| Research and development | \$3,780 | \$3,437 |
| General and administrative | 2,843 | 2,020 |
| Restructuring costs | — | 655 |
| Total operating expenses | 6,623 | 6,112 |
| Loss from operations | (6,623) | (6,112) |
| Interest and other income, net | 131 | 52 |
| Net loss | \$(6,492) | \$(6,060) |

Revenue

We do not have any products approved for sale, have not generated any revenue since our inception and do not expect to generate any material revenue in the near future. If our development efforts result in clinical success and regulatory approval or collaboration agreements with third parties for any of our product candidates, we may generate revenue from those product candidates.

Research and Development Expense

All costs of research and development are expensed in the period incurred. Research and development costs consist primarily of salaries and related expenses for personnel, stock-based compensation expense, fees paid to consultants, outside service providers, professional services, travel costs and materials used in clinical trials and research and development. We are currently pursuing multiple product candidates for over a dozen indications. We typically use our employee and infrastructure resources across multiple development programs.

Research and development expense was as follows for the periods indicated (in thousands, except for percentages):

| | Three months ended March 31, | | |
|--|------------------------------------|---------|-------------|
| | 2017 | 2016 | % Change |
| Payroll and related | \$1,454 | \$1,499 | (3)% |
| Consulting | 321 | 236 | 36 % |
| Field trial costs, including materials | 890 | 895 | (1)% |
| Stock-based compensation | 409 | 259 | 58 % |
| Other | 706 | 548 | 29 % |
| | \$3,780 | \$3,437 | 10 % |

During the three months ended March 31, 2017, research and development expense related primarily to advancing the development of Zimeta Oral, KIND-014, epoCat and KIND-015. We also increased our spending in biologics as we continue to advance additional potential candidates in our biologics program. In addition, we are building an in-house team to focus on setting-up a GMP manufacturing process for our potential biologic candidates.

Table of Contents

Research and development expenses for the three months ended March 31, 2017, increased by 10% to \$3,780,000 compared with \$3,437,000 for the same period in 2016. The increase was primarily due to \$150,000 higher stock-based compensation, additional \$118,000 in biologics material and batch production and testing costs, and \$85,000 higher consulting expenses. Outsourced research and development expenses related to Zimeta Oral and IV, KIND-014, epoCat, Mirataz, KIND-015 and other product development programs for the three months ended March 31, 2017 were \$505,000, \$119,000, \$71,000, \$67,000, \$55,000 and \$342,000, respectively. Outsourced research and development expense consists primarily of costs related to CMC, clinical trial costs and consulting.

We expect research and development expense to increase for the foreseeable future as we increase our headcount, commence pilot studies and further develop our small molecule compounds and biologics development programs. Due to the inherently unpredictable nature of our development, we cannot reasonably estimate or predict the nature, specific timing or estimated costs of the efforts that will be necessary to complete the development of our product candidates.

General and Administrative Expense

General and administrative expense was as follows for the periods indicated (in thousands, except for percentages):

| | Three months ended March 31, | | | |
|--|------------------------------------|---------|-------------|---|
| | 2017 | 2016 | % Change | |
| Payroll and related | \$836 | \$663 | 26 | % |
| Consulting, legal fees and professional services | 391 | 241 | 62 | % |
| Stock-based compensation | 832 | 503 | 65 | % |
| Corporate and marketing expenses | 384 | 311 | 23 | % |
| Other | 400 | 302 | 32 | % |
| | \$2,843 | \$2,020 | 41 | % |

General and administrative expenses for the three months ended March 31, 2017 increased by 41% to \$2,843,000 compared with \$2,020,000 for the same period in 2016. The \$0.8 million increase was primarily due to a mix of higher stock-based compensation expense, payroll and related expenses due to salary increases, legal and professional fees, and marketing and travel expenses related to launch preparation of the Zimeta and Mirataz.

We expect general and administrative expense to increase going forward as we prepare for the commercial launches of Zimeta and Mirataz.

Restructuring costs

We have no further restructuring charge beyond the one-time charge of \$655,000 recorded in the first quarter of 2016.

Income Taxes

We have historically incurred operating losses and maintain a full valuation allowance against our net deferred tax assets. Our management has evaluated the factors bearing upon the realizability of our deferred tax assets, which are comprised principally of net operating loss carryforwards and concluded that, due to the uncertainty of realizing any tax benefits as of March 31, 2017, a valuation allowance was necessary to fully offset our deferred tax assets.

Liquidity and Capital Resources

We have incurred losses and negative cash flows from operations and have not generated any revenue since our inception in September 2012 through March 31, 2017. As of March 31, 2017, we had an accumulated deficit of \$87,593,000. In December 2013, we raised approximately \$66.0 million, net of offering costs, primarily in connection

Table of Contents

with our initial public offering and through the sale of preferred stock (subsequently converted to common stock at the time of our initial public offering). In April, 2014, we completed a follow-on public offering of common stock, resulting in net proceeds of approximately \$58.1 million. In the first quarter of 2017, we raised approximately \$16,546,000 in net proceeds from sale of common stock under the ATM sales agreement, after deducting commissions and offering costs (see Note 1). As of March 31, 2017, we had cash, cash equivalents and investments of \$68,143,000. We believe that our cash, cash equivalents and investments balances as of March 31, 2017, are sufficient to fund our planned operations for at least the next 24 months.

Cash Flows

The following table summarizes our cash flows for the periods set forth below:

| | Three months ended March 31, | |
|---|---------------------------------|-----------|
| | 2017 | 2016 |
| | (In thousands) | |
| Net cash used in operating activities | \$(5,865) | \$(6,484) |
| Net cash provided by (used in) investing activities | \$2,422 | \$(3,897) |
| Net cash provided by financing activities | \$16,622 | \$— |

Net cash used in operating activities

During the three months ended March 31, 2017, net cash used in operating activities was \$5,865,000. The net loss of \$6,492,000 for the three months ended March 31, 2017 included non-cash charges of \$1,241,000 for stock-based compensation expense, \$88,000 for the amortization of premium on marketable securities and \$46,000 for depreciation and amortization. Net cash used in operating activities was further impacted by changes in operating assets and liabilities of \$748,000.

During the three months ended March 31, 2016, net cash used in operating activities was \$6,484,000. Net cash used in operating activities resulted primarily from our net loss of \$6,060,000, partially offset by non-cash, stock-based compensation of \$762,000, depreciation and amortization of \$38,000, amortization of premium on marketable securities of \$77,000, and further impacted by changes in operating assets and liabilities of \$1,301,000.

Net cash provided by (used in) investing activities

During the three months ended March 31, 2017, net cash provided by investing activities was \$2,422,000, which resulted from proceeds from maturities of marketable securities of \$17,510,000 and sales of investments of \$1,600,000, offset by \$16,356,000 related to the purchase of marketable securities and \$332,000 related to purchases of property and equipment.

During the three months ended March 31, 2016, net cash used in investing activities was \$3,897,000 and related to proceeds from maturities of marketable securities of \$30,440,000, offset by the purchase of marketable securities of \$33,673,000 and property and equipment of \$664,000.

Net cash provided by financing activities

During the three months ended March 31, 2017, net cash provided by financing activities of \$16,622,000 was related to net proceeds of \$16,546,000 from the sale of common stock under our ATM sales agreement and \$76,000 in proceeds from the purchase of common stock through exercise of stock options.

During the three months ended March 31, 2016, there were no cash financing activities.

Future Funding Requirements

We anticipate that we will continue to incur losses for the next several years due to expenses relating to:

Table of Contents

pivotal trials of our product candidates;
toxicology (target animal safety) studies for our product candidates;
small molecule manufacturing;
establishment of biologics manufacturing capability; and
commercialization of one or more of our product candidates, if approved.

We believe our existing cash, cash equivalents and investments will be sufficient to fund our operating plan through the next 24 months. However, our operating plan may change as a result of many factors currently unknown to us, and we may need to seek additional funds sooner than planned, through public or private equity or debt financings or other sources, such as strategic collaborations. Such financing may result in dilution to stockholders, imposition of debt covenants and repayment obligations or other restrictions that may affect our business. In addition, we may seek additional capital due to favorable market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans.

Our future capital requirements depend on many factors, including, but not limited to:

- the scope, progress, results and costs of researching and developing our current or future product candidates;
- the timing of, and the costs involved in, obtaining regulatory approvals for any of our current or future product candidates;
- the number and characteristics of the product candidates we pursue;
- the cost of manufacturing our current and future product candidates and any products we successfully commercialize, including cost of building internal biologics manufacturing capacity;
- the cost of commercialization activities if any of our current or future product candidates are approved for sale, including marketing, sales and distribution costs;
- the expenses needed to attract and retain skilled personnel;
- the costs associated with being a public company;
- our ability to establish and maintain strategic collaborations, licensing or other arrangements and the financial terms of such agreements; and
- the costs involved in preparing, filing, prosecuting, maintaining, defending and enforcing possible patent claims, including litigation costs and the outcome of any such litigation.

Since inception, we have not engaged in the use of any off-balance sheet arrangements, such as structured finance entities, special purpose entities or variable interest entities.

Contractual Obligations

In April 2014, we entered into non-cancelable operating leases for 2,145 square feet of laboratory space through May 2017 and 6,900 square feet of office space through November 2017. In January, August and November 2015, we amended our original operating lease for laboratory space to expand the facility with an additional 2,431 square feet, 131 square feet and 123 square feet, respectively, of manufacturing space through May 2017. In August 2015, we entered into a non-cancelable operating lease for 3,126 square feet of office space in San Diego, California through September 2019. In February and October 2016, we further amended our original operating lease for laboratory space to further expand the facility with an additional 3,599 square feet and 2,326 square feet, respectively, of laboratory space through May 2017. Commencing on June 1, 2017, the non-cancellable operating lease for the entire existing laboratory space of a total 10,755 square feet is extended for another 5 years through May 2022. In February 2017, we further amended the operating lease for laboratory space with an additional 721 square feet through May 2022. In April 2017, we renewed our operating lease for 6,900 square feet of office space in Burlingame, California through November 30, 2020. In addition, we have three equipment leases expiring through 2020. Under the operating leases we are obligated to make minimum lease payments as of March 31, 2017 totaling \$3,385,000 through May 2022, the timing of which is described in more detail in the notes to the condensed consolidated financial statements.

Off-Balance Sheet Arrangements

As of March 31, 2017, we did not have any material off-balance sheet arrangements as defined in Item 303(a)(4)(ii) of SEC Regulation S-K.

Table of Contents

Recently Issued Accounting Pronouncements

In May 2014, Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) No. 2014-09, "Revenue from Contracts with Customers". This new standard will replace most of the existing revenue recognition guidance in U.S. GAAP when it becomes effective and permits the use of either the retrospective or cumulative effect transition method. The new standard, as amended, becomes effective in the first quarter of fiscal year 2018, but allows the adoption of the standard one year earlier if we so choose. To-date we do not have any revenue, but we continue to assess the effect of this new standard.

In November 2015, the FASB issued ASU No. 2015-17, "Balance Sheet Classification of Deferred Taxes", requiring all deferred tax assets and liabilities, and any related valuation allowance, to be classified as non-current on the consolidated balance sheet. The classification change for all deferred taxes as non-current simplifies entities' processes as it eliminates the need to separately identify the net current and net non-current deferred tax asset or liability in each jurisdiction and allocate valuation allowances. The update is effective for public business entities issuing consolidated financial statements for the annual periods beginning after December 15, 2016, and interim periods within those annual periods. We adopted this standard as of March 31, 2017 and the adoption did not have a material impact on our condensed consolidated financial statements.

In January 2016, the FASB issued ASU No. 2016-01, "Financial Instruments—Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities", which amends the guidance in U.S. GAAP on the classification and measurement of financial instruments and also amends certain disclosure requirements associated with the fair value of financial instruments. The new guidance is effective for fiscal years beginning after December 15, 2017, including interim periods within those fiscal years. We are currently evaluating the new guidance and have not determined the impact this standard may have on our condensed consolidated financial statements.

In February 2016, the FASB issued ASU No. 2016-02, "Leases (Topic 842)", requiring organizations that lease assets—referred to as "lessees"—to recognize on the consolidated balance sheet the assets and liabilities for the rights and obligations created by those leases. Under the new guidance, a lessee will be required to recognize assets and liabilities for leases with lease terms of more than 12 months. The ASU on leases will take effect for public companies for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2018. We are currently evaluating the new guidance and have not determined the impact this standard may have on our condensed consolidated financial statements.

We do not believe there are any other recently issued standards not yet effective that will have a material impact on our consolidated financial statements when the standards become effective.

Table of Contents

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

The primary objective of our investment activities is to preserve capital. We do not utilize hedging contracts or similar instruments.

We are exposed to certain market risks relating primarily to (1) interest rate risk on our cash and cash equivalents, (2) market price risk on our investments, and (3) risks relating to the financial viability of the institutions which hold our capital and through which we have invested our funds. We manage such risks by investing in short-term, liquid, highly-rated instruments. As of March 31, 2017, our cash equivalents and investments are invested in money market funds, U.S. treasury bills, U.S. federal agency notes, corporate notes, commercial paper and U.S treasury bonds. We do not believe we have any material exposure to interest rate risk due to the extremely low interest rate environment, the short duration of the securities we hold and our ability to hold our investments to maturity if necessary. Declines in interest rates would reduce investment income, but would not have a material effect on our financial condition or results of operations.

We do not currently have exposure to foreign currency risk.

ITEM 4. CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

As of the end of the period covered by this quarterly report on Form 10-Q, our management, with the participation of our Chief Executive Officer and Interim Chief Financial Officer (the “Certifying Officer”), evaluated the effectiveness of our disclosure controls and procedures. Disclosure controls and procedures are controls and procedures designed to reasonably assure that information required to be disclosed in our reports filed under the Securities Exchange Act of 1934 (the “Exchange Act”), such as this report, is recorded, processed, summarized and reported within the time periods specified in the SEC rules and forms. Disclosure controls and procedures are also designed to reasonably assure that such information is accumulated and communicated to our management, including the Certifying Officer, as appropriate to allow timely decisions regarding required disclosure. Based on these evaluations, the Certifying Officer has concluded, that, as of the end of the period covered by this report:

- (a) our disclosure controls and procedures were effective to provide reasonable assurance that information required to be disclosed by us in the reports we file or submit under the Exchange Act was recorded, processed, summarized and reported within the time periods specified in the SEC’s rules and forms; and
- (b) our disclosure controls and procedures were effective to provide reasonable assurance that material information required to be disclosed by us in the reports we file or submit under the Exchange Act was accumulated and communicated to our management, including the Certifying Officer, as appropriate to allow timely decisions regarding required disclosure.

Changes in Internal Control over Financial Reporting

There has not been any change in our internal control over financial reporting that occurred during the period ended March 31, 2017 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Table of Contents

PART II — OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

None.

ITEM 1A. RISK FACTORS

You should consider the “Risk Factors” included under Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2016 filed with the SEC on March 1, 2017. There have been no material changes to those Risk Factors.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

Unregistered Sales of Equity Securities and Issuer Purchases of Equity Securities

None.

Use of Proceeds from the Sale of Registered Securities

On December 11, 2013, our registration statement on Form S-1 (File No. 333-192242) was declared effective by the Securities and Exchange Commission (SEC) for our initial public offering pursuant to which we sold an aggregate of 8,625,000 shares of our common stock at a price to the public of \$7.00 per share. There has been no material change in our use of proceeds from our initial public offering as described in our final prospectus filed with the SEC on December 12, 2013 pursuant to Rule 424(b).

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

ITEM 5. OTHER INFORMATION

None.

Table of Contents

ITEM 6. EXHIBITS

EXHIBIT INDEX

| Exhibit Number | Description |
|-------------------|--|
| 31.1 | Sarbanes-Oxley Act Section 302 Certification of Chief Executive Officer and Interim Chief Financial Officer. |
| 32.1 | Sarbanes-Oxley Act Section 906 Certification of Chief Executive Officer and Interim Chief Financial Officer. |
| 101.INS | XBRL Instance Document |
| 101.SCH | XBRL Taxonomy Extension Schema Document |
| 101.CAL | XBRL Taxonomy Extension Calculation Linkbase Document |
| 101.DEF | XBRL Taxonomy Extension Definition Linkbase Document |
| 101.LAB | XBRL Taxonomy Extension Labels Linkbase Document |
| 101.PRE | XBRL Taxonomy Extension Presentation Linkbase Document |

Table of Contents

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Date: May 3, 2017

Kindred Biosciences, Inc.

By: /s/ Richard Chin

Richard Chin, M.D.

President and Chief Executive Officer and Interim Chief Financial Officer