

HARVARD BIOSCIENCE INC
Form 10-Q
November 06, 2014

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM 10-Q

Quarterly report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the quarterly period ended September 30, 2014

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 001-33957

HARVARD BIOSCIENCE, INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware
(State or Other Jurisdiction of
Incorporation or Organization)

04-3306140
(IRS Employer
Identification No.)

84 October Hill Road, Holliston, MA
(Address of Principal Executive Offices)

01746
(Zip Code)

(508) 893-8999
(Registrant's telephone number, including area code)

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 period 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.

Large accelerated filer Accelerated filer

Non-accelerated filer (Do not check if a smaller reporting company) Smaller reporting company

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). YES NO

Indicate the number of shares outstanding of each of the issuer’s classes of common stock, as of the latest practicable date.

As of October 31, 2014, there were 32,419,655 shares of common stock, par value \$0.01 per share, outstanding.

HARVARD BIOSCIENCE, INC.

FORM 10-Q

For the Quarter Ended September 30, 2014

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PART I. FINANCIAL INFORMATION

Item 1. Financial Statements.

HARVARD BIOSCIENCE, INC.
CONSOLIDATED BALANCE SHEETS
(Unaudited, in thousands, except share and per share data)

	September 30, 2014	December 31, 2013
Assets		
Current assets:		
Cash and cash equivalents	\$ 26,734	\$ 25,771
Accounts receivable, net of allowance for doubtful accounts of \$312 and \$358, respectively	14,281	13,884
Inventories	18,063	15,777
Deferred income tax assets - current	1,546	1,547
Other receivables and other assets	4,062	3,771
Assets held-for-sale, net	315	-
Total current assets	65,001	60,750
Property, plant and equipment, net	4,109	4,375
Deferred income tax assets - non-current	12,765	13,116
Amortizable intangible assets, net	16,691	19,009
Goodwill	35,938	36,605
Other indefinite lived intangible assets	1,265	1,289
Other assets	359	316
Total assets	\$ 136,128	\$ 135,460
Liabilities and Stockholders' Equity		
Current liabilities:		
Current portion, long-term debt	\$ 5,000	\$ 5,000
Accounts payable	5,052	4,682
Deferred revenue	592	640
Accrued income taxes	29	99
Accrued expenses	4,132	5,078
Other liabilities - current	823	586
Total current liabilities	15,628	16,085
Long-term debt, less current installments	18,200	19,750
Deferred income tax liabilities - non-current	119	160
Other long term liabilities	5,405	4,980
Total liabilities	39,352	40,975
Commitments and contingencies		
Stockholders' equity:		
Preferred stock, par value \$0.01 per share, 5,000,000 shares authorized	-	-
	395	390

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Common stock, par value \$0.01 per share, 80,000,000 shares authorized; 40,122,271 and 39,384,974 shares issued and 32,376,764 and 31,639,467 shares outstanding, respectively		
Additional paid-in-capital	205,388	202,446
Accumulated deficit	(92,670)	(95,039)
Accumulated other comprehensive loss	(5,669)	(2,644)
Treasury stock at cost, 7,745,507 common shares	(10,668)	(10,668)
Total stockholders' equity	96,776	94,485
Total liabilities and stockholders' equity	\$ 136,128	\$ 135,460

See accompanying notes to unaudited consolidated financial statements.

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HARVARD BIOSCIENCE, INC.
 CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE (LOSS) INCOME
 (Unaudited, in thousands, except per share data)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2014	2013	2014	2013
Revenues	\$25,448	\$25,137	\$78,299	\$77,317
Cost of product revenues (exclusive of items shown separately below)	14,006	13,838	42,818	41,669
Gross profit	11,442	11,299	35,481	35,648
Sales and marketing expenses	4,113	4,174	13,102	13,106
General and administrative expenses	4,130	4,646	12,378	13,227
Research and development expenses	1,059	1,101	3,316	3,036
Restructuring charges	97	96	349	51
Amortization of intangible assets	618	600	1,839	1,955
HART transaction costs	-	268	-	1,788
Total operating expenses	10,017	10,885	30,984	33,163
Operating income	1,425	414	4,497	2,485
Other (expense) income:				
Foreign exchange	-	(84)	(148)	(74)
Interest expense	(239)	(276)	(752)	(650)
Interest income	19	10	45	28
Other expense, net	(249)	(7)	(397)	(87)
Other expense, net	(469)	(357)	(1,252)	(783)
Income from continuing operations before income taxes	956	57	3,245	1,702
Income tax expense	323	105	871	725
Income (loss) from continuing operations	633	(48)	2,374	977
Discontinued operations:				
Loss from discontinued operations, net of tax	-	(935)	-	(2,051)
Net income (loss)	\$633	\$(983)	\$2,374	\$(1,074)
Earnings (loss) per share:				
Basic earnings per common share from continuing operations	\$0.02	\$-	\$0.07	\$0.03
Discontinued operations	-	(0.03)	-	(0.07)
Basic earnings (loss) per common share	\$0.02	\$(0.03)	\$0.07	\$(0.04)
Diluted earnings per common share from continuing operations	\$0.02	\$-	\$0.07	\$0.03
Discontinued operations	-	(0.03)	-	(0.06)
Diluted earnings (loss) per common share	\$0.02	\$(0.03)	\$0.07	\$(0.03)
Weighted average common shares:				
Basic	32,342	30,575	32,080	30,155
Diluted	33,415	30,575	33,097	31,762

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Comprehensive (loss) income:

Net income (loss)	\$633	\$(983)	\$2,374	\$(1,074)
Foreign currency translation adjustments	(3,168)	2,381	(2,584)	540
Derivatives qualifying as hedges, net of tax:				
Gain (loss) on derivative instruments designated and qualifying as cash flow hedges	23	(23)	(57)	(69)
Amounts reclassified from accumulated other comprehensive loss to net income	31	29	100	26
Unrealized losses on pension benefit obligation, net of tax	-	-	(484)	-
Total comprehensive (loss) income	\$(2,481)	\$1,404	\$(651)	\$(577)

See accompanying notes to unaudited consolidated financial statements.

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HARVARD BIOSCIENCE, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(Unaudited, in thousands)

	Nine Months Ended September 30,	
	2014	2013
Cash flows from operating activities:		
Net income (loss)	\$ 2,374	\$ (1,074)
Adjustments to reconcile net income (loss) to net cash provided by operating activities:		
Stock compensation expense	1,534	2,000
Depreciation	913	990
Earn-out related to discontinued operations	-	(440)
Loss on disposal of fixed assets	8	1
Non-cash restructuring (credit) charges	(120)	51
Amortization of catalog costs	37	84
(Recovery) provision for allowance for doubtful accounts	(34)	69
Amortization of intangible assets	1,839	1,955
Amortization of deferred financing costs	46	29
Deferred income taxes	259	(1,712)
Changes in operating assets and liabilities:		
(Increase) decrease in accounts receivable	(557)	948
Increase in inventories	(2,649)	(227)
Increase in other receivables and other assets	(466)	(1,015)
Increase (decrease) in trade accounts payable	446	(15)
(Decrease) increase in accrued income taxes	(107)	406
(Decrease) increase in accrued expenses	(486)	615
(Decrease) increase in deferred revenue	(38)	143
Increase in other liabilities	89	3
Net cash provided by operating activities	3,088	2,811
Cash flows (used in) provided by investing activities:		
Additions to property, plant and equipment	(1,224)	(1,089)
Additions to catalog costs	-	(57)
Proceeds from sale of discontinued operations	-	1,709
Proceeds from sales of property, plant and equipment	76	66
Net cash (used in) provided by investing activities	(1,148)	629
Cash flows provided by (used in) financing activities:		
Proceeds from issuance of debt	2,200	12,049
Repayments of debt	(3,750)	(1,500)
Payments of debt issuance costs	-	(292)
Net proceeds from issuance of common stock	1,415	2,290
Net cash (used in) provided by financing activities	(135)	12,547
Effect of exchange rate changes on cash	(842)	263
Increase in cash and cash equivalents	963	16,250
Cash and cash equivalents at the beginning of period	25,771	20,681

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Cash and cash equivalents at the end of period	\$ 26,734	\$ 36,931
Supplemental disclosures of cash flow information:		
Cash paid for interest	\$ 757	\$ 534
Cash paid for income taxes, net of refunds	\$ 451	\$ 1,244

See accompanying notes to unaudited consolidated financial statements.

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HARVARD BIOSCIENCE, INC.
Notes to Unaudited Consolidated Financial Statements

1. Basis of Presentation and Summary of Significant Accounting Policies

Basis of Presentation

The unaudited consolidated financial statements of Harvard Bioscience, Inc. and its wholly-owned subsidiaries (collectively, “Harvard Bioscience” or the “Company”) as of September 30, 2014 and for the three and nine months ended September 30, 2014 and 2013 have been prepared by the Company pursuant to the rules and regulations of the Securities and Exchange Commission (“SEC”). Certain information and footnote disclosures normally included in financial statements prepared in accordance with U.S. generally accepted accounting principles (“U.S. GAAP”) have been condensed or omitted pursuant to such rules and regulations. The December 31, 2013 consolidated balance sheet was derived from audited financial statements, but does not include all disclosures required by U.S. GAAP. However, the Company believes that the disclosures are adequate to make the information presented not misleading. These unaudited consolidated financial statements should be read in conjunction with the consolidated financial statements and the notes thereto included in the Company’s Annual Report on Form 10-K for the fiscal year ended December 31, 2013, which was filed with the SEC on March 14, 2014.

In the opinion of management, all adjustments, which include normal recurring adjustments necessary to present a fair statement of financial position as of September 30, 2014, results of operations and comprehensive (loss) income for the three and nine months ended September 30, 2014 and 2013 and cash flows for the nine months ended September 30, 2014 and 2013, as applicable, have been made. The results of operations for the three and nine months ended September 30, 2014 are not necessarily indicative of the operating results for the full fiscal year or any future periods.

Summary of Significant Accounting Policies

The accounting policies underlying the accompanying unaudited consolidated financial statements are those set forth in Note 2 to the consolidated financial statements included in the Company’s Annual Report on Form 10-K for the year ended December 31, 2013, which was filed with the SEC on March 14, 2014.

2. Recently Issued Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2014-09, “Revenue from Contracts with Customers,” a new accounting standard that provides for a comprehensive model to use in the accounting for revenue arising from contracts with customers that will replace most existing revenue recognition guidance in U.S. GAAP. Under this standard, revenue will be recognized to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the Company expects to be entitled in exchange for those goods or services. This standard will be effective as of the beginning of the Company’s 2017 fiscal year. The Company is assessing the new standard and has not yet determined the impact to the consolidated financial statements.

3. Accumulated Other Comprehensive (Loss) Income

Changes in each component of accumulated other comprehensive (loss) income, net of tax are as follows:

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(in thousands)	Foreign currency translation adjustments	Derivatives qualifying as hedges	Defined benefit pension plans	Total
Balance at December 31, 2013	\$ 1,283	\$ (49)	\$ (3,878)	\$(2,644)
Other comprehensive (loss) income before reclassifications	(2,584)	(57)	(484)	(3,125)
Amounts reclassified from AOCI	-	100	-	100
Net other comprehensive (loss) income	(2,584)	43	(484)	(3,025)
Balance at September 30, 2014	\$ (1,301)	\$ (6)	\$ (4,362)	\$(5,669)

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4. Goodwill and Other Intangible Assets

Intangible assets consist of the following:

	September 30, 2014		December 31, 2013		Weighted Average Life	(a)
	Gross	Accumulated Amortization	Gross	Accumulated Amortization		
(in thousands)						
Amortizable intangible assets:						
Existing technology	\$ 13,136	\$ (11,244)	\$ 13,464	\$ (11,091)	3.7	Years
Trade names	6,065	(2,451)	6,178	(2,185)	10.2	Years
Distribution agreements/customer relationships	21,348	(10,392)	21,827	(9,447)	10.0	Years
Patents	267	(38)	271	(8)	4.4	Years
Total amortizable intangible assets	40,816	\$ (24,125)	41,740	\$ (22,731)		
Indefinite-lived intangible assets:						
Goodwill	35,938		36,605			
Other indefinite-lived intangible assets	1,265		1,289			
Total goodwill and other indefinite-lived intangible assets	37,203		37,894			
Total intangible assets	\$ 78,019		\$ 79,634			

(a) Weighted average life as of September 30, 2014.

The change in the carrying amount of goodwill for the nine months ended September 30, 2014 is as follows:

	(in thousands)
Balance at December 31, 2013	\$ 36,605
Effect of change in currency translation	(667)
Balance at September 30, 2014	\$ 35,938

Intangible asset amortization expense was \$0.6 million and \$0.6 million for the three months ended September 30, 2014 and 2013, respectively. Intangible asset amortization expense was \$1.8 million and \$2.0 million for the nine months ended September 30, 2014 and 2013, respectively. Amortization expense of existing amortizable intangible assets is currently estimated to be \$2.4 million for the year ending December 31, 2014, \$2.2 million for the year ending December 31, 2015, \$2.0 million for the year ending December 31, 2016, \$1.8 million for the year ending December 31, 2017 and \$1.6 million for the year ending December 31, 2018.

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5. Inventories

Inventories consist of the following:

	September 30, 2014	December 31, 2013
	(in thousands)	
Finished goods	\$9,140	\$ 7,039
Work in process	512	752
Raw materials	8,411	7,986
Total	\$18,063	\$ 15,777

6. Property, Plant and Equipment

Property, plant and equipment consist of the following:

	September 30, 2014	December 31, 2013
	(in thousands)	
Land, buildings and leasehold improvements	\$2,276	\$ 3,082
Machinery and equipment	9,597	9,471
Computer equipment and software	5,351	4,927
Furniture and fixtures	1,125	1,281
Automobiles	57	59
	18,406	18,820
Less: accumulated depreciation	(14,297)	(14,445)
Property, plant and equipment, net	\$4,109	\$ 4,375

7. Restructuring and Other Exit Costs

2013 Restructuring Plans

During the fourth quarter of 2013, the management of Harvard Bioscience initiated a plan to realign global operations to improve organizational efficiencies and reduce operating expenses throughout the Company. The plan included an approximately 13% reduction in the workforce, as well as the elimination of the position of Chief Operating Officer. During 2013, the Company recorded restructuring charges of approximately \$2.1 million representing severance payments. Additional charges related to this plan are expected to be incurred through the fourth quarter of 2014, and include, but are not limited to, contract termination costs, as well as moving and employee relocation costs. For the three and nine months ended September 30, 2014, the Company recorded net restructuring charges of approximately \$0.1 million and \$0.3 million, respectively, representing severance and other payments. Payments related to this plan are expected to be made through the end of 2014. Activity and liability balances related to these charges were as follows:

Severance and Related Costs	Fixed Asset Write Offs	Other	Total
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	(in thousands)			
Restructuring charges - 2013	\$2,100	\$ -	\$-	\$2,100
Cash payments	(666)	-	-	(666)
Restructuring balance at December 31, 2013	1,434	-	-	1,434
Restructuring charges	199	13	257	469
Non-cash reversal of restructuring charges	(117)	(13)	-	(130)
Cash payments	(1,447)	-	(234)	(1,681)
Restructuring balance at September 30, 2014	\$69	\$ -	\$23	\$92

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As part of the 2013 Restructuring Plan, the Company decided to close one of its facilities in the United Kingdom. As of September 30, 2014, the facility met the criteria to be classified as an asset held-for-sale under Accounting Standards Codification (ASC 360), Property, Plant, and Equipment. The facility has been included as a current asset, at its net book value at the time it was classified as held-for-sale, in the consolidated balance sheet as it is anticipated the facility will be sold within one year of the balance sheet date.

During the third quarter of 2013, the management of Harvard Bioscience initiated a plan to reduce operating expenses at one of its foreign subsidiaries. No further charges are expected to be incurred on this matter. Activity and liability balances related to these charges were as follows:

	Severance and Related Costs (in thousands)
Restructuring charges	\$ 96
Cash payments	(96)
Restructuring balance at September 30, 2013	\$ -

2012 Restructuring Plan

During 2012, the management of Harvard Bioscience initiated a plan to reduce operating expenses at one of its foreign subsidiaries. The Company recorded restructuring charges of approximately \$0.3 million representing severance payments. No further charges are expected to be incurred on this matter. As of September 30, 2014, the Company had no remaining liability related to this plan on its balance sheet. Activity and liability balances related to these charges were as follows:

	Severance and Related Costs	Other	Total
	(in thousands)		
Restructuring charges	\$312	\$11	\$323
Cash payments	(179)	-	(179)
Restructuring balance at December 31, 2012	133	11	144
Cash payments	(84)	(11)	(95)
Non-cash reversal of restructuring charges	(46)	-	(46)
Restructuring balance at December 31, 2013	3	-	3
Non-cash reversal of restructuring charges	(3)	-	(3)
Restructuring balance at September 30, 2014	\$-	\$-	\$-

Aggregate net restructuring charges relating to the 2013 Restructuring Plans and the 2012 Restructuring Plan were as follows:

	Three Months Ended September 30, 2014		Nine Months Ended September 30, 2014	
	2014	2013	2014	2013
	(in thousands)		(in thousands)	
Restructuring charges	\$97	\$96	\$349	\$51

8. Discontinued Operations

UBI

In September 2008, the Company completed the sale of assets of its Union Biometrica Division (“UBI”) including its German subsidiary, Union Biometrica GmbH, to UBIO Acquisition Company. During 2013, the Company received earn-out payments, including interest, from UBIO Acquisition Company, of \$1.8 million related to the 2008 acquisition. The Company received its final payment under the earn-out obligation from UBIO Acquisition Company in October 2013.

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HART

On November 1, 2013, the spin-off of Harvard Apparatus Regenerative Technology, Inc. (“HART”) from the Company was completed. Through the spin-off date, the historical operations of HART were reported as continuing operations in the consolidated statements of operations of the Company. Following the spin-off, the historical operations of HART have been reclassified and reported as discontinued operations for all periods presented. As a result of the spin-off and related separation, HART became an independent company that operates the regenerative medicine business previously owned by Harvard Bioscience. The spin-off was completed through the distribution to Harvard Bioscience’s stockholders of record all of the shares of common stock of HART (the “Distribution”). In the Distribution, the Company distributed to its stockholders one share of HART common stock for every four shares of Harvard Bioscience common stock outstanding as of the close of business on October 21, 2013, the record date for the Distribution. Fractional shares of HART common stock were not included in the distribution. Instead, Registrar & Transfer Company aggregated fractional shares into whole shares, sold the whole shares in the open market and distributed the aggregate net cash proceeds of the sales pro rata to each holder who otherwise would have been entitled to receive a fractional share in the Distribution.

Effective with the spin-off, the Company contributed \$15.0 million in cash to HART to fund its operations. In addition, the Company transferred approximately \$0.9 million in assets, made up primarily of property, plant and equipment, to HART as part of the spin-off.

In connection with the spin-off of HART, certain required adjustments were made to the Company’s outstanding equity compensation awards under its employee benefit plans. Each outstanding option to purchase Harvard Bioscience common stock was converted on the date of the Distribution into both an adjusted Harvard Bioscience option to purchase Harvard Bioscience common stock and an option to purchase HART common stock. Black-Scholes valuation modeling was used to determine the value that each Harvard Bioscience option had lost at the time of the Distribution and to ensure the holder maintained such lost value, 80% of such lost value was provided back to the holder by making appropriate adjustments to the share amount and exercise price of the existing Harvard Bioscience option and 20% of such lost value was provided back to the holder through the issuance of an option to purchase HART common stock. Similar to the adjustment of the existing Harvard Bioscience options, with respect to each unvested Harvard Bioscience restricted stock unit outstanding at the time of the Distribution, such Harvard Bioscience restricted stock unit was converted on the date of the Distribution into both an adjusted Harvard Bioscience restricted stock unit and a HART restricted stock unit. The market prices of Harvard Bioscience and HART common stock were used to determine the value that each Harvard Bioscience restricted stock unit lost at the time of the Distribution and then to ensure the holder maintained such lost value, 80% of such lost value was provided back to the holder by making the appropriate increases of the share amount of the existing Harvard Bioscience restricted stock unit and 20% of such lost value was provided back to the holder through the issuance of a HART restricted stock unit. The share amounts and exercise prices of the adjusted Harvard Bioscience options and HART options, as well as the share amounts of the adjusted Harvard Bioscience restricted stock units and HART restricted stock units, were each adjusted and set in a manner to ensure the intrinsic value held by the holder pertaining to the existing Harvard Bioscience award was maintained immediately following the Distribution and was determined such that tax was not triggered under Section 409A of the Internal Revenue Code. As part of these required adjustments, the Company issued approximately 1.7 million options and approximately 0.1 million restricted stock units to holders of its outstanding equity compensation awards.

In connection with the spin-off, on October 31, 2013, the Company entered into various commercial agreements with HART which contain many of the key terms, conditions and arrangements related to the Distribution. A description of certain of these agreements can be found in Note 9.

Harvard Bioscience intends for the Distribution and related separation, taken together, to qualify as a reorganization pursuant to which no gain or loss is recognized by Harvard Bioscience or its stockholders for federal income tax purposes under Sections 355, 368(a)(1)(D) and related provisions of the Internal Revenue Code. On June 28, 2013, Harvard Bioscience received a Supplemental Ruling to the Private Letter Ruling dated March 22, 2013 from the IRS to the effect that, among other things, the spin-off will qualify as a transaction that is tax-free for U.S. federal income tax purposes under Section 355 and 368(a)(1)(D) of the Internal Revenue Code continuing in effect. Harvard Bioscience has also received an opinion from its outside tax advisor to such effect. In connection with the ruling and the opinion, Harvard Bioscience made certain representations regarding it and its business. The Company has agreed that it will not take or fail to take any action which prevents or could reasonably be expected to prevent the tax-free status of the spin-off. HART has agreed to certain restrictions that are intended to preserve the tax-free status of the contribution and the Distribution. HART may take certain actions otherwise prohibited by these covenants if Harvard Bioscience receives a private letter ruling from the IRS or if HART obtains, and provides to Harvard Bioscience, an opinion from a U.S. tax counsel or accountant of recognized national standing, in either case, acceptable to Harvard Bioscience in its sole and absolute discretion to the effect that such action would not jeopardize the tax-free status of the contribution and the Distribution. These covenants include restrictions on HART's:

- issuance or sale of stock or other securities (including securities convertible into HART's stock but excluding certain compensatory arrangements);

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- sales of assets outside the ordinary course of business; and
- entering into any other corporate transaction which would cause HART to undergo a 50% or greater change in HART's stock ownership.

In addition, current U.S. federal income tax law creates a presumption that the spin-off of HART would be taxable to the Company, but not its stockholders, if such spin-off is part of a "plan or series of related transactions" pursuant to which one or more persons acquire directly or indirectly stock representing a 50% or greater interest (by vote or value) in the Company or HART. Acquisitions that occur during the four-year period that begins two years before the date of the spin-off are presumed to occur pursuant to a plan or series of related transactions, unless it is established that the acquisition is not pursuant to a plan or series of transactions that includes the spin-off. U.S. Treasury regulations currently in effect generally provide that whether an acquisition and a spin-off are part of a plan is determined based on all of the facts and circumstances, including, but not limited to, specific factors described in the U.S. Treasury regulations. In addition, the U.S. Treasury regulations provide several "safe harbors" for acquisitions that are not considered to be part of a plan. These rules will limit the Company's ability during the two-year period following the spin-off to enter into certain transactions that may be advantageous to the Company and its stockholders, particularly issuing equity securities to satisfy financing needs, repurchasing equity securities, disposing of certain assets, engaging in mergers and acquisitions, and, under certain circumstances, acquiring businesses or assets with equity securities or agreeing to be acquired.

The following table sets forth the impact of discontinued operations on the Company's consolidated statements of income for the three and nine months ended September 30, 2014 and 2013.

	Three Months Ended September 30, 2014		Nine Months Ended September 30, 2014	
	2013		2013	
	(in thousands)		(in thousands)	
Gain on disposal of discontinued operations, UBI	\$-	\$101	\$-	\$440
(Loss) from discontinued operations, HART	-	(1,467)	-	(4,467)
Income tax (benefit)	-	(431)	-	(1,976)
(Loss) from discontinued operations, net of tax	\$-	\$(935)	\$-	\$(2,051)

9. Related Party Transactions

In connection with the HART spin-off, the Company entered into various commercial agreements with HART. These agreements include: (i) a Separation and Distribution Agreement to effect the separation and spin-off distribution and provide other agreements to govern the Company's relationship with HART after the spin-off; (ii) an Intellectual Property Matters Agreement, which governs various intellectual property related arrangements between the Company and HART, including the separation of intellectual property rights between the Company and HART, as well as certain related cross-licenses between the two companies; (iii) a Product Distribution Agreement, which provides that each company will become the exclusive distributor for the other party for products such other party develops for sale in the markets served by the other; (iv) a Tax Sharing Agreement, which governs the Company's and HART's respective rights, responsibilities and obligations with respect to tax liabilities and benefits, tax attributes, the preparation and filing of tax returns, the control of audits and other tax proceedings and other matters regarding taxes for periods before, during and after the spin-off; and (v) a Transition Services Agreement, which provides for certain services to be performed on a transitional basis by the Company to facilitate HART's transition into a separate public reporting company. As part of the Transition Services Agreement, and for one year following the spin-off date, the Company will provide certain support services to HART, including, among others, accounting, payroll, human resources and information technology services, with the charges for the transition services generally intended to allow

the Company to fully recover the costs directly associated with providing the services, plus all out-of-pocket costs and expenses. The Transition Services Agreement expired on November 1, 2014.

The Company recorded revenues of approximately \$45,000 and \$154,000 for the three and nine months ended September 30, 2014, respectively, as a result of the exclusive distribution rights pursuant to the Product Distribution Agreement. The Company's operating expenses were reduced by \$18,000 and \$119,000 for the three and nine months ended September 30, 2014, respectively, as a result of the fees the Company charged to HART for services provided pursuant to the Transition Services Agreement. In addition, the Company's rent expense was reduced by \$44,000 and \$125,000 for the three and nine months ended September 30, 2014, respectively, as a result of sublease rent charged to HART pursuant to a sublease between the two companies.

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David Green, who is currently a Director of the Company and was also formerly the Company's President and interim CEO, is currently the Chairman and CEO of HART.

10. Warranties

Warranties are estimated and accrued at the time revenues are recorded. A rollforward of product warranties is as follows:

	Beginning Balance	Payments	Additions	Ending Balance
	(in thousands)			
Year ended December 31, 2013	\$222	(179)	262	\$305
Nine Months Ended September 30, 2014	\$305	(56)	28	\$277

11. Employee Benefit Plans

Certain of the Company's subsidiaries in the United Kingdom, or UK, Harvard Apparatus Limited and Biochrom Limited, maintain contributory, defined benefit or defined contribution pension plans for substantially all of their employees. As of September 30, 2014, the principal employer of the Harvard Apparatus Limited pension plan was changed from Harvard Apparatus Limited to Biochrom Limited. As of September 30, 2014, these defined benefit pension plans were closed to new employees, as well as closed to the future accrual of benefits for existing employees. The components of the Company's defined benefit pension expense were as follows:

	Three Months Ended September 30, 2014		Nine Months Ended September 30, 2014	
	2013	2013	2013	2013
	(in thousands)			
Components of net periodic benefit cost:				
Service cost	\$-	\$84	\$-	\$235
Interest cost	200	209	649	583
Expected return on plan assets	(147)	(137)	(478)	(383)
Net amortization loss	40	65	131	181
Net periodic benefit cost	\$93	\$221	\$302	\$616

For the three and nine months ended September 30, 2014, the Company contributed \$0.2 million and \$0.6 million, respectively, to its defined benefit pension plans. For the three and nine months ended September 30, 2013, the Company contributed \$0.2 million and \$0.5 million, respectively, to its defined benefit pension plans. The Company expects to contribute approximately \$0.2 million to its defined benefit pension plans during the remainder of 2014.

During the nine months ended September 30, 2014 the Company wrote down its Level 3 investment in a longevity fund by an additional \$0.6 million, which reduced its value to \$0. The impact on accumulated other comprehensive loss was \$0.5 million, net of tax. The longevity fund invests in a portfolio of physical life insurance settlements that had been historically valued using the net asset values provided by the fund. Since June 2011, the fund has been closed to all activity. The write down during the nine months ended September 30, 2014 was due, in part, to communication from the longevity fund regarding its continued illiquidity and inactivity.

As of September 30, 2014 and December 31, 2013, the Company had an underfunded pension liability of approximately \$5.4 million and \$4.9 million, respectively, included in the other liabilities – non-current line item in the consolidated balance sheets.

12. Leases

Rent expense was \$0.3 million and \$1.1 million for the three and nine months ended September 30, 2014, respectively. Rent expense was \$0.3 million and \$0.9 million for the three and nine months ended September 30, 2013, respectively.

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During the nine months ended September 30, 2014, the Company entered into Amendment No. 3 (the “Third Amendment”) amending the terms of the lease on the Company’s corporate headquarters in Holliston, MA. The Third Amendment extended the term of the lease through August 31, 2024, while also expanding the Company’s rentable square feet in the building by approximately 22,000 square feet to a total of approximately 83,000 square feet. The commencement date of the Third Amendment is October 1, 2014.

Future minimum lease payments for operating leases, with initial or remaining terms in excess of one year at September 30, 2014, are as follows:

	Operating Leases (in thousands)
2015	\$ 1,816
2016	1,351
2017	1,329
2018	1,299
2019	1,160
Thereafter	4,941
Net minimum lease payments	\$ 11,896

13. Capital Stock

Common Stock

On February 5, 2008, the Company’s Board of Directors adopted a Shareholder Rights Plan and declared a dividend distribution of one preferred stock purchase right for each outstanding share of the Company’s common stock to shareholders of record as of the close of business on February 6, 2008. Initially, these rights will not be exercisable and will trade with the shares of the Company’s common stock. Under the Shareholder Rights Plan, the rights generally will become exercisable if a person becomes an “acquiring person” by acquiring 20% or more of the common stock of the Company or if a person commences a tender offer that could result in that person owning 20% or more of the common stock of the Company. If a person becomes an acquiring person, each holder of a right (other than the acquiring person) would be entitled to purchase, at the then-current exercise price, such number of shares of preferred stock which are equivalent to shares of the Company’s common stock having a value of twice the exercise price of the right. If the Company is acquired in a merger or other business combination transaction after any such event, each holder of a right would then be entitled to purchase, at the then-current exercise price, shares of the acquiring company’s common stock having a value of twice the exercise price of the right.

Preferred Stock

The Company’s Board of Directors has the authority to issue up to 5.0 million shares of preferred stock and to determine the price privileges and other terms of the shares. The Board of Directors may exercise this authority without any further approval of stockholders. As of September 30, 2014, the Company had no preferred stock issued or outstanding.

Employee Stock Purchase Plan (as amended, the “ESPP”)

In 2000, the Company approved the ESPP. Under this ESPP, participating employees can authorize the Company to withhold a portion of their base pay during consecutive six-month payment periods for the purchase of shares of the Company’s common stock. At the conclusion of the period, participating employees can purchase shares of the

Company's common stock at 85% of the lower of the fair market value of the Company's common stock at the beginning or end of the period. Shares are issued under the ESPP for the six-month periods ending June 30 and December 31. Under this plan, 750,000 shares of common stock are authorized for issuance of which 558,456 shares were issued as of September 30, 2014. During the nine months ended September 30, 2014 and 2013, the Company issued 31,116 and 27,305 shares, respectively, of the Company's common stock under the ESPP. There were no shares issued under the ESPP during the three months ended September 30, 2014 and 2013.

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Stock-Based Payment Awards

The Company accounts for stock-based payment awards in accordance with the provisions of ASC 718, Compensation – Stock Compensation, which requires that compensation expense is recognized for all stock-based payment awards made to employees and directors including stock options, restricted stock units and employee stock purchases related to the ESPP.

Stock option and restricted stock unit activity under the Company’s Third Amended and Restated 2000 Stock Option and Incentive Plan (as amended, the “2000 Plan”) for the nine months ended September 30, 2014 was as follows:

	Stock Options	Weighted	Restricted Stock Units	
	Stock	Average	Restricted	
	Options	Exercise	Stock	Grant Date
	Outstanding	Price	Outstanding	Fair Value
Balance at December 31, 2013	6,690,845	\$ 3.42	463,973	\$ 4.32
Granted	993,000	4.14	116,400	4.12
Exercised	(535,413)	3.00	-	-
Vested (RSUs)	-	-	(233,098)	-
Cancelled / forfeited	(832,263)	4.69	(40,878)	4.36
Balance at September 30, 2014	6,316,169	\$ 3.40	306,397	\$ 4.30

The weighted average fair value of the options granted under the 2000 Plan during the three months ended September 30, 2014 was \$2.64, using the Black Scholes option-pricing model. There were no stock options granted during the three months ended September 30, 2013. The weighted average fair value of the options granted under the 2000 Plan during the nine months ended September 30, 2014 and 2013 was \$2.20 and \$2.64, respectively. The following assumptions were used to estimate the fair value of stock options granted during the three and nine months ended September 30, 2014 and 2013:

	Three Months Ended				Nine Months Ended			
	September 30,		September 30,		September 30,		September 30,	
	2014	2013	2014	2013	2014	2013	2014	2013
Volatility	56.96	% -	% -	% 56.83	% 57.20	%	%	%
Risk-free interest rate	1.90	% -	% -	% 1.79	% 1.18	%	%	%
Expected holding period (in years)	5.93	-	-	5.75	5.64			
Dividend Yield	-	% -	% -	% -	% -	%	%	%

The Company used historical volatility to calculate the expected volatility as of September 30, 2014. Historical volatility was determined by calculating the mean reversion of the daily adjusted closing stock price. The risk-free interest rate assumption is based upon observed U.S. Treasury bill interest rates (risk-free) appropriate for the term of the Company’s stock options. The expected holding period of stock options represents the period of time options are expected to be outstanding and is based on historical experience. The vesting period ranges from one to four years and the contractual life is ten years.

Stock-based compensation expense related to stock options, restricted stock units and the ESPP for the three and nine months ended September 30, 2014 and 2013 was allocated as follows:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2014	2013	2014	2013
	(in thousands)			
Cost of product revenues	\$36	\$39	\$94	\$91
Sales and marketing	100	47	244	130
General and administrative	463	632	1,160	1,685
Research and development	16	16	36	33
Discontinued operations	-	29	-	61
Total stock-based compensation	\$615	\$763	\$1,534	\$2,000

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The Company did not capitalize any stock-based compensation.

Earnings per share

Basic earnings per share is based upon net income divided by the number of weighted average common shares outstanding during the period. The calculation of diluted earnings per share assumes conversion of stock options and restricted stock units into common stock using the treasury method. The weighted average number of shares used to compute basic and diluted earnings per share consists of the following:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2014	2013	2014	2013
Basic	32,341,586	30,574,815	32,079,744	30,154,788
Effect of assumed conversion of employee and director stock options and restricted stock units	1,073,271	-	1,017,268	1,607,678
Diluted	33,414,857	30,574,815	33,097,012	31,762,466

Excluded from the shares used in calculating the diluted earnings per common share in the above table are options to purchase approximately 2,449,873 and 6,316,169 shares of common stock for the three months ended September 30, 2014 and 2013, respectively, as the impact of these shares would be anti-dilutive. Excluded from the shares used in calculating the diluted earnings per common share in the above table are options to purchase approximately 2,535,314 and 2,541,300 shares of common stock for the nine months ended September 30, 2014 and 2013, respectively, as the impact of these shares would be anti-dilutive.

14. Long Term Debt

On August 7, 2009, the Company entered into an amended and restated \$20.0 million revolving credit loan agreement with Bank of America, as agent, and Bank of America and Brown Brothers Harriman & Co as lenders (the "2009 Credit Agreement"). On September 30, 2011, the Company entered into the First Amendment to the Amended and Restated Revolving Credit Loan Agreement (the "First Amendment") with Bank of America as agent, and Bank of America and Brown Brothers Harriman & Co as lenders. The First Amendment extended the maturity date of the credit facility to August 7, 2013 and reduced the interest rate to the London Interbank Offered Rate plus 3.0%. On October 4, 2012, the Company entered into the Second Amendment to the Amended and Restated Revolving Credit Loan Agreement (the "Second Amendment") with Bank of America as agent, and Bank of America and Brown Brothers Harriman & Co as lenders. The Second Amendment extended the maturity date of the credit facility to August 7, 2014.

On March 29, 2013, the Company entered into a Second Amended and Restated Revolving Credit Agreement (as amended, the "Credit Agreement") with Bank of America, as agent, and Bank of America and Brown Brothers Harriman & Co as lenders, that amended and restated the 2009 Credit Agreement. The Credit Agreement converted the Company's existing outstanding revolving advances into a term loan in the principal amount of \$15.0 million (the "Term Loan"), provides a revolving credit facility in the maximum principal amount of \$25.0 million ("Revolving Line") and provides a delayed draw term loan of up to \$15.0 million (the "DDTL") to fund capital contributions to the Company's former subsidiary, HART. The maximum amount available under the Credit Agreement is \$50.0 million as borrowings against the DDTL in excess of \$10.0 million results in a dollar for dollar reduction in the Revolving Line capacity. The Revolving Line has a maturity date of March 29, 2016, while the Term Loan and DDTL have a maturity date of March 29, 2018.

On October 31, 2013, the Company amended the Credit Agreement to reduce the DDTL from up to \$15.0 million to up to \$10.0 million and allow for an additional \$5.0 million to be available for drawing as advances under the Revolving Line.

Borrowings under the Term Loan and the DDTL shall bear interest at a rate based on either the effective London Interbank Offered Rate (LIBOR) for certain interest periods selected by the Company, or a daily floating rate based on the British Bankers' Association (BBA) LIBOR as published by Reuters (or other commercially available source providing quotations of BBA LIBOR), plus in either case, a margin of 3.0%. The Revolving Line shall bear interest at a rate based on either the effective LIBOR for certain interest periods selected by the Company, or a daily floating rate based on the BBA LIBOR, plus in either case, a margin of 2.5%. The Company was required to fix the rate of interest on at least 50% of the Term Loan and the DDTL through the purchase of interest rate swaps. The Term Loan and DDTL each have interest payments due at the end of the applicable LIBOR period, or monthly with respect to BBA LIBOR borrowings, and principal payments due quarterly. The Revolving Line has interest payments due at the end of the applicable LIBOR period, or monthly with respect to BBA LIBOR borrowings.

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The loans evidenced by the Credit Agreement, or the Loans, are guaranteed by all of the Company's direct and indirect domestic subsidiaries, and secured by substantially all of the assets of the Company and the guarantors. The Loans are subject to restrictive covenants under the Credit Agreement, and financial covenants that require the Company and its subsidiaries to maintain certain financial ratios on a consolidated basis, including a maximum leverage, minimum fixed charge coverage and minimum working capital. Prepayment of the Loans is allowed by the Credit Agreement at any time during the terms of the Loans. The Loans also contain limitations on the Company's ability to incur additional indebtedness and requires lender approval for acquisitions funded with cash, promissory notes and/or other consideration in excess of \$6.0 million and for acquisitions funded solely with equity in excess of \$10.0 million.

As of September 30, 2014 and December 31, 2013, the Company had borrowings of \$23.2 million and \$24.8 million, respectively, outstanding under its Credit Agreement. As of September 30, 2014, the Company was in compliance with all financial covenants contained in the Credit Agreement, was subject to a working capital borrowing restriction and had an unused Revolving Line balance under its Credit Agreement of \$20.3 million.

As of September 30, 2014, the weighted effective interest rates on the Company's Term Loan, DDTL and Revolving Line borrowings were 3.96%, 3.54% and 2.65%, respectively.

As of September 30, 2014 and December 31, 2013, the Company's borrowings were comprised of:

	September 30, 2014	December 31, 2013
	(in thousands)	
Long-term debt:		
Term loan	\$ 10,500	\$ 12,750
DDTL	8,000	9,500
Revolving line	4,700	2,500
Total debt	23,200	24,750
Less: current installments	(5,000)	(5,000)
Long-term debt	\$ 18,200	\$ 19,750

15. Derivatives

The Company uses interest-rate-related derivative instruments to manage its exposure related to changes in interest rates on its variable-rate debt instruments. The Company does not enter into derivative instruments for any purpose other than cash flow hedging. The Company does not speculate using derivative instruments.

By using derivative financial instruments to hedge exposures to changes in interest rates, the Company exposes itself to credit risk and market risk. Credit risk is the failure of the counterparty to perform under the terms of the derivative contract. When the fair value of a derivative contract is positive, the counterparty owes the Company, which creates credit risk for the Company. When the fair value of a derivative contract is negative, the Company owes the counterparty and, therefore, the Company is not exposed to the counterparty's credit risk in those circumstances. The Company minimizes counterparty credit risk in derivative instruments by entering into transactions with carefully selected major financial institutions based upon their credit profile.

Market risk is the adverse effect on the value of a derivative instrument that results from a change in interest rates. The market risk associated with interest-rate contracts is managed by establishing and monitoring parameters that limit the types and degree of market risk that may be undertaken.

The Company assesses interest rate risk by continually identifying and monitoring changes in interest rate exposures that may adversely impact expected future cash flows and by evaluating hedging opportunities. The Company maintains risk management control systems to monitor interest rate risk attributable to both the Company's outstanding or forecasted debt obligations as well as the Company's offsetting hedge positions. The risk management control systems involve the use of analytical techniques, including cash flow sensitivity analysis, to estimate the expected impact of changes in interest rates on the Company's future cash flows.

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The Company uses variable-rate London Interbank Offered Rate (LIBOR) debt to finance its operations. The debt obligations expose the Company to variability in interest payments due to changes in interest rates. Management believes that it is prudent to limit the variability of a portion of its interest payments. To meet this objective, management enters into LIBOR based interest rate swap agreements to manage fluctuations in cash flows resulting from changes in the benchmark interest rate of LIBOR. These swaps change the variable-rate cash flow exposure on the debt obligations to fixed cash flows. Under the terms of the interest rate swaps, the Company receives LIBOR based variable interest rate payments and makes fixed interest rate payments, thereby creating the equivalent of fixed-rate debt for the notional amount of its debt hedged. In accordance with its Credit Agreement, the Company was required to fix the rate of interest on at least 50% of its Term Loan and the DDTL through the purchase of interest rate swaps. On June 5, 2013, the Company entered into an interest rate swap contract with an original notional amount of \$15.0 million and a maturity date of March 29, 2018 in order to hedge the risk of changes in the effective benchmark interest rate (LIBOR) associated with the Company's Term Loan. On November 29, 2013, the Company entered into a second interest rate swap contract with an original notional amount of \$5.0 million and a maturity date of March 29, 2018 in order to hedge the risk of changes in the effective benchmark interest rate (LIBOR) associated with the DDTL. The notional amount of the Company's derivative instruments as of September 30, 2014 was \$14.5 million. The Term Loan swap contract converted specific variable-rate debt into fixed-rate debt and fixed the LIBOR rate associated with the Term Loan at 0.96% plus a bank margin of 3.0%. The DDTL swap contract converted specific variable-rate debt into fixed-rate debt and fixed the LIBOR rate associated with the Term Loan at 0.93% plus a bank margin of 3.0%. The interest rate swaps were designated as cash flow hedges in accordance with ASC 815, Derivatives and Hedging.

The following table presents the notional amount and fair value of the Company's derivative instruments as of September 30, 2014 and December 31, 2013.

		September 30, 2014	September 30, 2014
		Notional Amount	Fair Value (a)
Derivatives designated as hedging instruments under ASC 815	Balance sheet classification		(in thousands)
Interest rate swap	Other liabilities-non current	\$ 14,500	\$ (6)
		December 31, 2013	December 31, 2013
		Notional Amount	Fair Value (a)
Derivatives designated as hedging instruments under ASC 815	Balance sheet classification		(in thousands)
Interest rate swap	Other liabilities-non current	\$ 17,500	\$ (49)

(a) See Note 16 for the fair value measurements related to these financial instruments.

All of the Company's derivative instruments are designated as hedging instruments.

The Company has structured its interest rate swap agreements to be 100% effective and as a result, there was no impact to earnings resulting from hedge ineffectiveness. Changes in the fair value of interest rate swaps designated as hedging instruments that effectively offset the variability of cash flows associated with variable-rate, long-term debt obligations are reported in accumulated other comprehensive income ("AOCI"). These amounts subsequently are

reclassified into interest expense as a yield adjustment of the hedged interest payments in the same period in which the related interest affects earnings. The Company's interest rate swap agreement was deemed to be fully effective in accordance with ASC 815, and, as such, unrealized gains and losses related to these derivatives were recorded as AOCI.

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The following table summarizes the effect of derivatives designated as cash flow hedging instruments and their classification within comprehensive income for the three and nine months ended September 30, 2014 and 2013:

Derivatives in Hedging Relationships	Amount of gain or (loss) recognized in OCI on derivative (effective portion)			
	Three months ended		Nine months ended	
	September 30,		September 30,	
	2014	2013	2014	2013
(in thousands)				
Interest rate swap	\$ 23	\$ (23)	\$ (57)	\$ (69)

The following table summarizes the reclassifications out of accumulated other comprehensive income (loss) for the three and nine months ended September 30, 2014 and 2013:

Details about AOCI Components	Amount of gain or (loss) reclassified from AOCI into income (effective portion)				Location of gain or (loss) reclassified from AOCI into income (effective portion)
	Three months ended		Nine months ended		
	September 30,		September 30,		
	2014	2013	2014	2013	
(in thousands)					
Interest rate swap	\$ (31)	\$ (29)	\$ (100)	\$ (26)	Interest expense

As of September 30, 2014, \$0.1 million of deferred losses on derivative instruments accumulated in AOCI are expected to be reclassified to earnings during the next twelve months. Transactions and events expected to occur over the next twelve months that will necessitate reclassifying these derivatives' losses to earnings include the repricing of variable-rate debt. There were no cash flow hedges discontinued during 2014 or 2013.

16. Fair Value Measurements

Fair value measurement is defined as the price that would be received to sell an asset or paid to transfer a liability in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants at the measurement date. A fair value hierarchy is established, which prioritizes the inputs used in measuring fair value into three broad levels as follows:

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

Level 2—Inputs, other than the quoted prices in active markets, that are observable either directly or indirectly.

Level 3—Unobservable inputs based on the Company's own assumptions.

The following tables present the fair value hierarchy for those liabilities measured at fair value on a recurring basis:

(In thousands)	Fair Value as of September 30, 2014			
	Level 1	Level 2	Level 3	Total
Liabilities:				
Interest rate swap agreements	\$ -	\$ 6	\$ -	\$ 6

Fair Value as of December 31, 2013

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(In thousands)	Level 1	Level 2	Level 3	Total
Liabilities:				
Interest rate swap agreements	\$ -	\$ 49	\$ -	\$ 49

The Company uses the market approach technique to value its financial liabilities. The Company's financial liabilities carried at fair value include derivative instruments used to hedge the Company's interest rate risks. The fair value of the Company's interest rate swap agreements was based on LIBOR yield curves at the reporting date.

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17. Income Tax

The effective income tax rate for continuing operations was 33.8% and 184.2% for the three months ended September 30, 2014 and 2013, respectively. The difference between the effective tax rate quarter over quarter was primarily attributable to discrete expense items related to certain non-deductible costs, UK tax rate changes and stock options, offset by a beneficial mix of earnings between taxing jurisdictions and higher research and development tax credits in 2013 versus 2014 due, in part, to the expiration of the U.S. research credit at the end of 2013. The rate for 2014 included discrete expense items related to certain non-deductible acquisition costs.

The effective income tax rate for continuing operations was 26.8% and 42.6% for the nine months ended September 30, 2014 and 2013, respectively. The difference between the effective tax rate year over year was primarily attributable to discrete expense items related to certain non-deductible costs, UK tax rate changes and stock options, offset by a beneficial mix of earnings between taxing jurisdictions and higher research and development tax credits in 2013 versus 2014 due, in part, to the expiration of the U.S. research credit at the end of 2013. The rate for 2014 included discrete expense items related to certain non-deductible acquisition costs.

18. Subsequent Events

Multi Channel Systems MCS GmbH

On October 1, 2014, the Company, through its wholly-owned Biochrom Limited subsidiary, acquired all of the issued and outstanding shares of Multi Channel Systems MCS GmbH (“MCS”), which has its principal offices in Germany, for approximately \$9.5 million. The Company funded the acquisition from its existing cash balances.

MCS is a developer, manufacturer and marketer of in vitro and in vivo electrophysiology instrumentation for extracellular recording and stimulation. This acquisition is complementary to the in vitro electrophysiology line currently offered by the Company’s wholly-owned Warner Instruments subsidiary.

The Company is in the process of determining the fair value of the various tangible and intangible assets acquired as a result of this acquisition.

The Company considers this acquisition immaterial for the purposes of proforma financial statement disclosures.

Triangle BioSystems, Inc.

On October 1, 2014, the Company acquired all of the issued and outstanding shares of Triangle BioSystems, Inc. (“TBSI”), which has its principal offices in North Carolina, for approximately \$1.6 million, net of cash acquired. The Company funded the acquisition from borrowings under its credit facility. See Note 14 for a further description of such credit facility.

TBSI is a developer, manufacturer and marketer of wireless neural interface equipment to aid in vivo neuroscience research, especially in the fields of electrophysiology, psychology, neurology and pharmacology. This acquisition is complementary to the behavioral neuroscience lines currently offered by the Company’s wholly-owned Panlab and Coulbourn subsidiaries.

The Company is in the process of determining the fair value of the various tangible and intangible assets acquired as a result of this acquisition.

The Company considers this acquisition immaterial for the purposes of proforma financial statement disclosures.

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Item 2. Management’s Discussion and Analysis of Financial Condition and Results of Operations.

Forward-Looking Statements

This Quarterly Report on Form 10-Q contains statements that are not statements of historical fact and are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 (the “Exchange Act”). The forward-looking statements are principally, but not exclusively, contained in “Item 2: Management’s Discussion and Analysis of Financial Condition and Results of Operations.” These statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Forward-looking statements include, but are not limited to, statements about management’s confidence or expectations, and our plans, objectives, expectations and intentions that are not historical facts. In some cases, you can identify forward-looking statements by terms such as “may,” “will,” “should,” “could,” “would,” “seek,” “expects,” “plans,” “aim,” “anticipates,” “believes,” “estimates,” “projects,” “think,” “potential,” “objectives,” “optimistic,” “strategy,” “goals,” “sees,” “new,” “guidance,” “future,” “continue,” “drive,” “projects,” “develop,” “possible,” “emerging,” “opportunity,” “pursue” and similar expressions intended to identify forward-looking statements. These statements reflect our current views with respect to future events and are based on assumptions and subject to risks and uncertainties. Given these uncertainties, you should not place undue reliance on these forward-looking statements. Factors that may cause our actual results to differ materially from those in the forward-looking statements include sustained uncertainty concerning government spending; economic and political conditions generally and those affecting pharmaceutical and biotechnology industries; economic, political and other risks associated with international revenues and operations; the seasonal nature of purchasing in Europe; currency exchange rate fluctuations; failure of any banking institution in which we deposit our funds or its failure to provide services; our substantial debt and our ability to meet the financial covenants contained in our credit facility; our failure to raise or generate capital necessary to implement our acquisition and expansion strategy; the failure of our spin-off of Harvard Apparatus Regenerative Technology, Inc., or HART, to qualify as a transaction that is generally tax-free for U.S. federal income tax purposes; the failure of HART to indemnify us for any liabilities associated with HART’s business; unanticipated costs relating to acquisitions, unanticipated costs arising in connection with our consolidation of business functions and any restructuring initiatives; our failure to expand in Asia and other emerging markets; our inability to manage our growth; competition from our competitors; our failure to expand our product offerings, introduce new products or commercialize new technologies; technological changes resulting in our products becoming obsolete; our failure to identify potential acquisition candidates and successfully close such acquisitions with favorable pricing or integrate acquired businesses or technologies; impact of any impairment of our goodwill or intangible assets; our ability to retain key personnel; failure or inadequacy of our information technology structure; rising commodity and precious metals costs; our ability to protect our intellectual property and operate without infringing on others’ intellectual property; exposure to product and other liability claims; plus other factors described under the heading “Item 1A. Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2013 and our Quarterly Report on Form 10-Q for the quarter ended March 31, 2014, or described in our other public filings. Our results may also be affected by factors of which we are not currently aware. We may not update these forward-looking statements, even though our situation may change in the future, unless we have obligations under the federal securities laws to update and disclose material developments related to previously disclosed information.

Overview

Since 2009, our operations included two main businesses, the Life Science Research Tools business (“LSRT”) and the Regenerative Medicine Device business (“RMD”). In December of 2012, we made the decision to divest our RMD business which we believed was the best path to maximizing value for our shareholders. On November 1, 2013, we completed the divestiture of the RMD business through the spin-off of HART to our shareholders, and the new company is now trading as a separate public reporting company on the NASDAQ stock market under the trading

symbol HART. As a result, on November 1, 2013, we began reporting our RMD business segment as a discontinued operation for all historical periods presented.

In connection with the spin-off of HART, certain required adjustments were made to our outstanding equity compensation awards under our employee benefit plans. Each outstanding option to purchase Harvard Bioscience common stock was converted into both an adjusted Harvard Bioscience option to purchase Harvard Bioscience common stock and an option to purchase HART common stock. The share amounts and exercise prices of the adjusted Harvard Bioscience options and HART options, as well as the share amounts of the adjusted Harvard Bioscience restricted stock units and HART restricted stock units, were each adjusted and set in a manner to ensure the intrinsic value held by the holder pertaining to the existing Harvard Bioscience award was maintained immediately following the spin-off and was determined such that tax is not triggered under Section 409A of the Internal Revenue Code. As part of these required adjustments, we issued approximately 1.7 million options and approximately 0.1 million restricted stock units to holders of our outstanding equity compensation awards.

Following the spin-off of HART, our former RMD segment, we have one reportable segment. As such, segment results and consolidated results are the same. The costs we incurred to separate and spin-off HART are included in our continuing operations and have been classified and reported as HART transaction costs, within operating expenses, on our consolidated statements of income.

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After the HART spin-off, our business has been aligned to focus on the growth of our LSRT business. Our goal is to be a world leading life science company that excels in meeting the needs of our customers by providing a wide breadth of innovative products and solutions. Our business strategy is to have a broad range of highly specialized products that have strong positions in targeted market segments within the life science industry. We believe that:

- having a broad product offering reduces the risk of being dependent on a single technology;
- having relatively inexpensive products reduces the volatility associated with expensive capital equipment; and
- providing strong technical and application service helps customers solve their problems and provides additional value to the customer.

Our growth strategy includes global expansion of sales and marketing and distribution channels, internal new product development building on our well-established brands, and acquisitions. We plan to use acquisitions to expand our product offerings because we believe we can use our well-established brands and distribution channels to accelerate the growth of these acquired products. We also believe that our expertise in operational management frequently allows us to improve profitability of acquired companies.

During the fourth quarter of 2013 we restructured our global operations to increase efficiency and better position us for growth. The restructuring is expected to result in overall net annual savings of approximately \$2.0 million on a pre-tax basis beginning in 2014. With a reduction of approximately \$3.0 million in personnel related costs and expenditures, approximately \$1.0 million is being reinvested in the Company primarily in expanding in China and other emerging markets, hiring for key functional roles and reinvigorating product development.

Subsequent Events

On October 1, 2014, we acquired all of the issued and outstanding shares of two life science companies for approximately \$11.1 million: Multi Channel Systems MCS GmbH, or MCS, which has its principal offices in Germany, and Triangle BioSystems, Inc., or TBSI, which has its principal offices in North Carolina. We funded the acquisitions of MCS and TBSI from our existing cash balances and borrowings under our credit facility, respectively.

MCS is a developer, manufacturer and marketer of in vitro and in vivo electrophysiology instrumentation for extracellular recording and stimulation. This acquisition is complementary to the in vitro electrophysiology line currently offered by our wholly-owned Warner Instruments subsidiary.

TBSI is a developer, manufacturer and marketer of wireless neural interface equipment to aid in vivo neuroscience research, especially in the fields of electrophysiology, psychology, neurology and pharmacology. This acquisition is complementary to the behavioral neuroscience lines currently offered by our wholly-owned Panlab and Coulbourn subsidiaries.

Together, we expect these acquisitions to add approximately \$7.5 million to \$8.5 million in revenues in 2015 and be accretive to 2015 earnings.

Components of Operating Income

Revenues. We generate revenues by selling apparatus, instruments, devices and consumables through our catalogs, our distributors, our direct sales force and our websites. Our websites and catalogs serve as the primary sales tools for our Physiology and Fluidics related product lines. These product lines include both proprietary manufactured products and complementary products from various suppliers. Our reputation as a leading producer in many of our manufactured products creates traffic to our website, enables cross-selling and facilitates the introduction of new products. We have field sales teams in the U.S., Canada, the United Kingdom, Germany, France and Spain. In those

regions where we do not have a direct sales team, we use distributors. Revenues from direct sales to end users represented approximately 64% and 60% of our revenues for the three months ended September 30, 2014 and 2013, respectively. For the nine months ended September 30, 2014 and 2013, revenues from direct sales to end users represented approximately 59% of our revenues for each period.

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Products in our Molecular and Cell analysis product lines are generally sold by distributors, and are typically priced in the range of \$5,000-\$15,000. They are mainly scientific instruments like spectrophotometers and plate readers that analyze light to detect and quantify a wide range of molecular and cellular processes, or apparatus like gel electrophoresis units. We also use distributors for both our catalog products and our higher priced products, for sales in locations where we do not have subsidiaries or where we have existing distributors in place from acquired businesses. For the three months ended September 30, 2014 and 2013, approximately 36% and 40% of our revenues, respectively, were derived from sales to distributors. For the nine months ended September 30, 2014 and 2013, approximately 41% and 41% of our revenues, respectively, were derived from sales to distributors.

For the three and nine months ended September 30, 2014, approximately 63% and 64% of our revenues, respectively, were derived from products we manufacture, approximately 9% and 10%, respectively, were derived from complementary products we distribute in order to provide the researcher with a single source for all equipment needed to conduct a particular experiment, and approximately 28% and 26%, respectively, were derived from distributed products sold under our brand names. For the three and nine months ended September 30, 2013, approximately 60% and 63% of our revenues, respectively, were derived from products we manufacture, approximately 12% and 10%, respectively, were derived from complementary products we distribute in order to provide the researcher with a single source for all equipment needed to conduct a particular experiment, and approximately 28% and 27%, respectively, were derived from distributed products sold under our brand names.

For the three months ended September 30, 2014 and 2013, approximately 39% and 37% of our revenues, respectively, were derived from sales made by our non-U.S. operations. For the nine months ended September 30, 2014 and 2013, approximately 40% and 38% of our revenues, respectively, were derived from sales made by our non-U.S. operations.

Cost of product revenues. Cost of product revenues includes material, labor and manufacturing overhead costs, obsolescence charges, packaging costs, warranty costs, shipping costs and royalties. Our cost of product revenues may vary over time based on the mix of products sold. We sell products that we manufacture and products that we purchase from third parties. The products that we purchase from third parties have a higher cost of product revenues as a percent of revenues because the profit is effectively shared with the original manufacturer. We anticipate that our manufactured products will continue to have a lower cost of product revenues as a percentage of revenues as compared with the cost of non-manufactured products for the foreseeable future. Additionally, our cost of product revenues as a percent of product revenues will vary based on mix of direct to end user sales and distributor sales, mix by product line and mix by geography.

Sales and marketing expenses. Sales and marketing expense consists primarily of salaries and related expenses for personnel in sales, marketing and customer support functions. We also incur costs for travel, trade shows, demonstration equipment, public relations and marketing materials, consisting primarily of the printing and distribution of our catalogs, supplements and the maintenance of our websites. We may from time to time expand our marketing efforts by employing additional technical marketing specialists in an effort to increase sales of selected categories of products. We may also from time to time expand our direct sales organizations in an effort to concentrate on key accounts or promote certain product lines.

General and administrative expenses. General and administrative expense consists primarily of salaries and other related costs for personnel in executive, finance, accounting, information technology and human resource functions. Other costs include professional fees for legal and accounting services, facility costs, investor relations, insurance and provision for doubtful accounts.

Research and development expenses. Research and development expense consists primarily of salaries and related expenses for personnel and spending to develop and enhance our products. Other research and development expense includes fees for consultants and outside service providers, and material costs for prototype and test units. We expense

research and development costs as incurred. We believe that investment in product development is a competitive necessity and plan to continue to make these investments in order to realize the potential of new technologies that we develop, license or acquire for existing markets.

Restructuring charges. Restructuring charges consist of severance, other personnel-related charges and exit costs related to plans to create organizational efficiencies and reduce operating expenses.

HART transaction costs. HART transaction costs consist of legal, accounting and other professional fees incurred to facilitate the separation and spin-off of HART. The costs have been included as a component of operating expenses on our consolidated statements of income.

Stock-based compensation expenses. Stock-based compensation expense for the three months ended September 30, 2014 and 2013 was \$0.6 million and \$0.8 million, respectively. Stock-based compensation expense for the nine months ended September 30, 2014 and 2013 was \$1.5 million and \$2.0 million, respectively. Stock-based compensation expense related to stock options, restricted stock units, and the ESPP and was recorded as a component of cost of product revenues, sales and marketing expenses, general and administrative expenses, research and development expenses and discontinued operations.

Bookings and Backlog. We monitor bookings and backlog as these are indicators of future revenues and business activity levels. Bookings were \$25.7 million for the three months ended September 30, 2014 and 2013. Excluding the effects of currency translation, our bookings decreased \$0.4 million, or 1.5% from the previous year.

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Bookings were \$79.4 million and \$77.2 million for the nine months ended September 30, 2014 and 2013, respectively. Excluding the effects of currency translation, our bookings increased \$1.0 million, or 1.0% from the previous year.

Our order backlog was approximately \$6.2 million and \$4.4 million as of September 30, 2014 and 2013, respectively. Excluding the effects of currency translation, our backlog increased \$1.7 million, or 40.0% from the previous year. The increase in backlog was primarily the result of the timing of customer orders and shipments. We include in backlog only those orders for which we have received valid purchase orders. Purchase orders may be cancelled at any time prior to shipment. Our backlog as of any particular date may not be representative of actual sales for any succeeding period.

Selected Results of Operations

Three months ended September 30, 2014 compared to three months ended September 30, 2013

	Three Months Ended September 30,		Dollar Change	% Change	
	2014	2013			
					(dollars in thousands)
Revenues	\$25,448	\$25,137	\$311	1.2	%
Cost of product revenues	14,006	13,838	168	1.2	%
Gross margin percentage	45.0 %	44.9 %	N/A	0.0	%
Sales and marketing expenses	4,113	4,174	(61)	-1.5	%
General and administrative expenses	4,130	4,646	(516)	-11.1	%
Research and development expenses	1,059	1,101	(42)	-3.8	%
Restructuring charges	97	96	1	1.0	%
Amortization of intangible assets	618	600	18	3.0	%
HART transaction costs	-	268	(268)	-100.0	%

Revenues

Revenues increased \$0.3 million, or 1.2%, to \$25.4 million for the three months ended September 30, 2014 compared to \$25.1 million for the same period in 2013. Currency translation had a positive 1.2% effect on revenues and was due primarily to the U.S. dollar's weakening in relation to the British pound sterling. Excluding the effects of currency translation, our revenues were flat quarter over quarter.

Cost of product revenues

Cost of product revenues increased \$0.2 million, or 1.2%, to \$14.0 million for the three months ended September 30, 2014 compared with \$13.8 million for the three months ended September 30, 2013. Gross profit margin as a percentage of revenues increased to 45.0% for the three months ended September 30, 2014 compared with 44.9% for the same period in 2013. The slight increase in gross profit margin was due primarily to currency translation.

Sales and marketing expenses

Sales and marketing expenses decreased \$0.1 million, or 1.5%, to \$4.1 million for the three months ended September 30, 2014 compared with \$4.2 million for the three months ended September 30, 2013. The decrease was primarily due to lower payroll related costs, partially offset by unfavorable currency translation.

General and administrative expenses

General and administrative expenses were \$4.1 million for the three months ended September 30, 2014, a decrease of \$0.5 million, or 11.1%, compared with the three months ended September 30, 2013. The decrease was primarily due to lower payroll related costs and lower stock compensation expenses, partially offset by unpaid incentive bonus costs and unfavorable currency translation.

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Research and development expenses

Research and development expenses were \$1.1 million for the three months ended September 30, 2014, a decrease of \$42,000, or 3.8%, compared with the three months ended September 30, 2013. The decrease was primarily due to lower payroll related costs, partially offset by unfavorable currency translation.

Restructuring

Restructuring charges were \$97,000 for three months ended September 30, 2014 compared with \$96,000 for the three months ended September 30, 2013. The slight increase was due to additional charges recorded during the three months ended September 30, 2014 related to the company-wide restructuring plan we implemented during the year ended December 31, 2013. The 2013 Restructuring Plan realigned global operations and included a reduction of our workforce of approximately 13%, as well as the elimination of the position of Chief Operating Officer.

Amortization of intangible assets

Amortization of intangible asset expenses was \$0.6 million for the three months ended September 30, 2014 and 2013.

HART transaction costs

HART transaction costs, which consist of corporate transaction costs related to the separation and spin-off of HART, were \$0 for the three months ended September 30, 2014 compared with \$0.3 million for the three months ended September 30, 2013.

Other expense, net

Other expense, net, was \$0.5 million and \$0.4 million for the three months ended September 30, 2014 and 2013, respectively. Interest expense was \$0.2 million for the three months ended September 30, 2014 compared to \$0.3 million for the three months ended September 30, 2013. The increase in other expense, net was primarily due to \$0.3 million in acquisition related costs incurred during the three months ended September 30, 2014 compared to \$4,000 for the three months ended September 30, 2013.

Income taxes

Income tax expense from continuing operations was approximately \$0.3 million and \$0.1 million for the three months ended September 30, 2014 and 2013, respectively. The effective income tax rate from continuing operations was 33.8% for the three months ended September 30, 2014, compared with 184.2% for the same period in 2013. The difference between our effective tax rate year over year was primarily attributable to discrete expense items related to certain non-deductible costs, UK tax rate changes and stock options, offset by a beneficial mix of earnings between taxing jurisdictions and higher research and development tax credits in 2013 versus 2014 due, in part, to the expiration of the U.S. research credit at the end of 2013. The rate for 2014 included discrete expense items related to certain non-deductible acquisition costs.

Discontinued Operations

In September 2008, we completed the sale of assets of our Union Biometrica Division including our German subsidiary, Union Biometrica GmbH, to UBIO Acquisition Company. During 2013, we received earn-out payments, including interest, from UBIO Acquisition Company, of \$1.8 million related to the 2008 acquisition. We received our final payment under the earn-out obligation from UBIO Acquisition Company in October 2013. Included in the loss

from discontinued operations, net of taxes, is a loss on disposal related to the Union Biometrica earn-out of \$5,000 for the three months ended September 30, 2013.

On November 1, 2013, the spin-off of HART and our RMD business was completed. Through the spin-off date the historical operations of RMD were reported as continuing operations in our consolidated statements of operations. Following the spin-off, the historical operations of RMD were restated and presented as discontinued operations in our consolidated statements of operations. Discontinued operations include the results of the RMD business except for certain corporate overhead costs and other allocations, which remain in continuing operations. The costs we incurred to separate and spin-off the RMD business are included in our continuing operations and have been classified and reported as transaction costs, within operating expenses, on our consolidated statements of operations. Loss from discontinued operations, net of taxes, related to RMD was \$0.9 million for the three months ended September 30, 2013.

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Selected Results of Operations

Nine months ended September 30, 2014 compared to nine months ended September 30, 2013

	Nine Months Ended September 30,		Dollar Change (dollars in thousands)	%	
	2014	2013			Change
Revenues	\$78,299	\$77,317	\$ 982	1.3	%
Cost of product revenues	42,818	41,669	1,149	2.8	%
Gross margin percentage	45.3 %	46.1 %	N/A	-1.7	%
Sales and marketing expenses	13,102	13,106	(4)	0.0	%
General and administrative expenses	12,378	13,227	(849)	-6.4	%
Research and development expenses	3,316	3,036	280	9.2	%
Restructuring charges	349	51	298	584.3	%
Amortization of intangible assets	1,839	1,955	(116)	-5.9	%
HART transaction costs	-	1,788	(1,788)	-100.0	%

Revenues

Revenues increased \$1.0 million, or 1.3%, to \$78.3 million for the nine months ended September 30, 2014 compared to \$77.3 million for the same period in 2013. Currency translation had a positive 2.0% effect on revenues for the nine months ended September 30, 2014 compared to the same period in 2013. Excluding the effects of currency translation, our revenues decreased 0.7% from the previous year.

Cost of product revenues

Cost of product revenues increased \$1.1 million, or 2.8%, to \$42.8 million for the nine months ended September 30, 2014 compared with \$41.7 million for the nine months ended September 30, 2013. Gross profit margin as a percentage of revenues decreased to 45.3% for the nine months ended September 30, 2014 compared with 46.1% for the same period in 2013. The decline in gross profit margin was due primarily to unexpected third party and internal-related costs incurred during the nine months ended September 30, 2014 to analyze, test and remediate several product requirements, including rebuilding associated technical files.

Sales and marketing expenses

Sales and marketing expenses were \$13.1 million for the nine months ended September 30, 2014 and 2013. Lower payroll related costs were almost entirely offset by unfavorable currency translation.

General and administrative expenses

General and administrative expenses were \$12.4 million for the nine months ended September 30, 2014, a decrease of approximately \$0.8 million, or 6.4%, compared with the nine months ended September 30, 2013. The decrease was primarily due to lower payroll related costs and lower stock compensation expenses, partially offset by unpaid incentive bonus costs and unfavorable currency translation.

Research and development expenses

Research and development expenses were \$3.3 million for the nine months ended September 30, 2014, an increase of approximately \$0.3 million, or 9.2%, compared with the nine months ended September 30, 2013. The increase was primarily due to higher payroll related costs and unfavorable currency translation.

Amortization of intangible assets

Amortization of intangible asset expenses was \$1.8 million for the nine months ended September 30, 2014 compared with \$2.0 million for the nine months ended September 30, 2013.

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Restructuring

Restructuring charges were \$0.3 million for nine months ended September 30, 2014 compared with \$0.1 for the nine months ended September 30, 2013. The increase was primarily due to additional charges recorded during the nine months ended September 30, 2014 related to the company-wide restructuring plan we implemented during the year ended December 31, 2013. The 2013 Restructuring Plan realigned global operations and included a reduction of our workforce of approximately 13%, as well as the elimination of the position of Chief Operating Officer.

HART transaction costs

HART transaction costs, which consist of corporate transaction costs related to the separation and spin-off of HART, were \$0 for the nine months ended September 30, 2014 compared with \$1.8 million for the nine months ended September 30, 2013.

Other expense, net

Other expense, net, was \$1.3 million and \$0.8 million for the nine months ended September 30, 2014 and 2013, respectively. Interest expense was \$0.8 million for the nine months ended September 30, 2014, compared to interest expense of \$0.7 million for the nine months ended September 30, 2013. The increase in interest expense was primarily due to both higher average debt balances and interest rates during the nine months ended September 30, 2014 compared to the prior year. In addition to interest expense, the increase in other expense, net was due to \$0.4 million in acquisition related costs incurred during the nine months ended September 30, 2014 compared to \$12,000 for the nine months ended September 30, 2013.

Income taxes

Income tax expense from continuing operations was approximately \$0.9 million and \$0.7 for the nine months ended September 30, 2014 and 2013, respectively. The effective income tax rate from continuing operations was 26.8% for the nine months ended September 30, 2014, compared with 42.6% for the same period in 2013. The difference between our effective tax rate year over year was primarily attributable to discrete expense items related to certain non-deductible costs, UK tax rate changes and stock options, offset by a beneficial mix of earnings between taxing jurisdictions and higher research and development tax credits in 2013 versus 2014 due, in part, to the expiration of the U.S. research credit at the end of 2013. The rate for 2014 included discrete expense items related to certain non-deductible acquisition costs.

Discontinued Operations

In September 2008, we completed the sale of assets of our Union Biometrica Division including our German subsidiary, Union Biometrica GmbH, to UBIO Acquisition Company. During 2013, we received earn-out payments, including interest, from UBIO Acquisition Company, of \$1.8 million related to the 2008 acquisition. We received our final payment under the earn-out obligation from UBIO Acquisition Company in October 2013. Included in the loss from discontinued operations, net of taxes, is a gain on disposal related to the Union Biometrica earn-out of \$0.3 million for the nine months ended September 30, 2013.

On November 1, 2013, the spin-off of HART and our RMD business was completed. Through the spin-off date the historical operations of RMD were reported as continuing operations in our consolidated statements of operations. Following the spin-off, the historical operations of RMD were restated and presented as discontinued operations in our consolidated statements of operations. Discontinued operations include the results of the RMD business except for certain corporate overhead costs and other allocations, which remain in continuing operations. The costs we incurred

to separate and spin-off the RMD business are included in our continuing operations and have been classified and reported as transaction costs, within operating expenses, on our consolidated statements of operations. Loss from discontinued operations, net of taxes, related to RMD was \$2.3 million for the nine months ended September 30, 2013.

Liquidity and Capital Resources

Historically, we have financed our business through cash provided by operating activities, the issuance of common stock, and bank borrowings. Our liquidity requirements arise primarily from investing activities, including funding of acquisitions, and other capital expenditures. As previously discussed, on October 1, 2014, we acquired all of the issued and outstanding shares of two life science companies for approximately \$11.1 million: MCS and TBSI. We funded the acquisitions of MCS and TBSI from our existing cash balances and borrowings under our credit facility, respectively.

As of September 30, 2014, we held cash and cash equivalents of \$26.7 million, compared with \$25.8 million at December 31, 2013. As of September 30, 2014 and December 31, 2013, we had \$23.2 million and \$24.8 million, respectively, of borrowings outstanding under our credit facility. Total cash and cash equivalents, net of debt was \$3.5 million and \$1.0 million at September 30, 2014 and December 31, 2013, respectively. In addition, we had an underfunded pension liability of approximately \$5.4 million and \$4.9 million at September 30, 2014 and December 31, 2013, respectively.

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As of September 30, 2014 and December 31, 2013, cash and cash equivalents held by our foreign subsidiaries was \$23.2 million and \$23.6 million, respectively. These funds are not available for domestic operations unless the funds are repatriated. If we planned to or did repatriate these funds, then U.S. federal and state income taxes would have to be recorded on such amounts. We currently have no plans and do not intend to repatriate any of our undistributed foreign earnings. These balances are considered permanently reinvested and will be used for foreign items including foreign acquisitions, capital investments, pension obligations and operations. It is impracticable to estimate the total tax liability, if any, which would be created by the future distribution of these earnings.

Condensed Cash Flow Statements
(in thousands, unaudited)

	Nine Months Ended September 30,	
	2014	2013
Cash flows from operations:		
Net income (loss)	\$2,374	\$(1,074)
Changes in assets and liabilities	(3,768)	858
Other adjustments to operating cash flows	4,482	3,027
Net cash provided by operating activities	3,088	2,811
Investing activities:		
Additions to property, plant and equipment	(1,224)	(1,089)
Other investing activities	76	1,718
Net cash (used in) provided by investing activities	(1,148)	629
Financing activities:		
Net (repayments of) proceeds from issuance of debt	(1,550)	10,549
Other financing activities	1,415	1,998
Net cash (used in) provided by financing activities	(135)	12,547
Effect of exchange rate changes on cash	(842)	263
Increase in cash and cash equivalents	\$963	\$16,250

Our operating activities generated cash of \$3.1 million for the nine months ended September 30, 2014 compared to \$2.8 million for the nine months ended September 30, 2013. The increase in cash flows from operations was primarily due to higher net income for the nine months ended September 30, 2014 compared to the same period in 2013, partially offset by an increase in inventory for the nine months ended September 30, 2014 compared to the same period in 2013. The increase was the result of higher levels at our Denville distribution business to improve customer service levels.

Our investing activities used cash of \$1.1 million during the nine months ended September 30, 2014, compared \$0.6 million of cash provided by investing activities during the nine months ended September 30, 2013. Investing activities during the nine months ended September 30, 2014 included purchases of property, plant and equipment and proceeds from the sale of property, plant and equipment. Investing activities during the nine months ended September 30, 2013 included purchases of property, plant and equipment, proceeds from the sale of property, plant and equipment, proceeds from the sale of discontinued operations and incurred catalog costs. We spent \$1.2 million and \$1.1 million on capital expenditures during the nine months ended September 30, 2014 and 2013, respectively. Over the next

several quarters, we expect that the pace of capital expenditures will accelerate due primarily to the implementation of a new ERP platform across all of our locations. We expect that this project will result in additional capital of between \$1.0 million and \$1.5 million based on our current footprint and excluding the impact of potential future acquisitions.

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Our financing activities have historically consisted of borrowings and repayments under our revolving credit facility and term loans, payments of debt issuance costs, the issuance of common stock and, unique to 2013, the transfer of cash as part of the separation and spin-off of HART. During the nine months ended September 30, 2014, financing activities used cash of \$0.1 million, compared with \$12.5 million of cash provided by financing activities for the nine months ended September 30, 2013. During the nine months ended September 30, 2014, we borrowed \$2.2 million under our credit facility to fund the acquisition of TBSI announced on October 1, 2014, repaid \$3.8 million of debt under our credit facility and ended the quarter with \$23.2 million of borrowings. Net proceeds from the issuance of common stock for the nine months ended September 30, 2014 was \$1.4 million, which related to the exercise of stock options. During the nine months ended September 30, 2013, we borrowed \$12.0 million under our credit facility, repaid \$1.5 million of debt under our credit facility, paid \$0.3 million in debt issuance costs and ended the quarter with \$23.5 million of borrowings. Net proceeds from the issuance of common stock for the nine months ended September 30, 2013 was \$2.3 million, which related to the exercise of stock options.

Borrowing Arrangements

On August 7, 2009, we entered into an amended and restated \$20.0 million revolving credit loan agreement with Bank of America, as agent, and Bank of America and Brown Brothers Harriman & Co as lenders (the “2009 Credit Agreement”). On September 30, 2011, we entered into the First Amendment to the Amended and Restated Revolving Credit Loan Agreement (the “First Amendment”) with Bank of America as agent, and Bank of America and Brown Brothers Harriman & Co as lenders. The First Amendment extended the maturity date of our credit facility to August 7, 2013 and reduced the interest rate to the London Interbank Offered Rate plus 3.0%. On October 4, 2012, we entered into the Second Amendment to the Amended and Restated Revolving Credit Loan Agreement (the “Second Amendment”) with Bank of America as agent, and Bank of America and Brown Brothers Harriman & Co as lenders. The Second Amendment extended the maturity date of our credit facility to August 7, 2014.

On March 29, 2013, we entered into a Second Amended and Restated Revolving Credit Agreement (as amended, the “Credit Agreement”) with Bank of America, as agent, and Bank of America and Brown Brothers Harriman & Co as lenders, that amended and restated the 2009 Credit Agreement. The Credit Agreement converted our existing outstanding revolving advances into a term loan in the principal amount of \$15.0 million (the “Term Loan”), provided a revolving credit facility in the maximum principal amount of \$25.0 million (“Revolving Line”) and provided a delayed draw term loan of up to \$15.0 million (the “DDTL”) to fund our capital contributions to HART. The maximum amount available under the Credit Agreement is \$50.0 million as borrowings against the DDTL in excess of \$10.0 million result in a dollar for dollar reduction in the Revolving Line capacity. The Revolving Line has a maturity date of March 29, 2016, while the Term Loan and DDTL have a maturity date of March 29, 2018.

On October 31, 2013, we amended the Credit Agreement to reduce the DDTL from up to \$15.0 million to up to \$10.0 million and allow for an additional \$5.0 million to be available for drawing as advances under the Revolving Line.

Borrowings under the Term Loan and the DDTL bear interest at a rate based on either the effective London Interbank Offered Rate (LIBOR) for certain interest periods selected by us, or a daily floating rate based on the British Bankers’ Association (BBA) LIBOR as published by Reuters (or other commercially available source providing quotations of BBA LIBOR), plus in either case, a margin of 3.0%. The Revolving Line bears interest at a rate based on either the effective LIBOR for certain interest periods selected by us, or a daily floating rate based on the BBA LIBOR, plus in either case, a margin of 2.5%. We were required to fix the rate of interest on at least 50% of the Term Loan and the DDTL through the purchase of interest rate swaps. The Term Loan and DDTL each have interest payments due at the end of the applicable LIBOR period, or monthly with respect to BBA LIBOR borrowings, and principal payments due quarterly. The Revolving Line has interest payments due at the end of the applicable LIBOR period, or monthly with respect to BBA LIBOR borrowings.

At September 30, 2014, the weighted effective interest rates on the Term Loan, DDTL and Revolving Line borrowings were 3.96%, 3.54% and 2.65%, respectively. The Credit Agreement includes covenants relating to income, debt coverage and cash flow, as well as minimum working capital requirements. The Credit Agreement also contains limitations on our ability to incur additional indebtedness and requires lender approval for acquisitions funded with cash, promissory notes and/or other consideration in excess of \$6.0 million and for acquisitions funded solely with equity in excess of \$10.0 million. As of September 30, 2014, we were in compliance with all financial covenants contained in the Credit Agreement; we were subject to a working capital borrowing restriction, and had unused Revolving Line balance under the Credit Agreement of \$20.3 million. The practical borrowing capacity, however, is less due to our cash generation from operating activities within the U.S.

Our forecast of the period of time through which our financial resources will be adequate to support our operations is a forward-looking statement that involves risks and uncertainties, and actual results could vary as a result of a number of factors. Based on our current operations and current operating plans, we expect that our available cash, cash generated from current operations and debt capacity will be sufficient to finance current operations, any potential future acquisitions and capital expenditures for the next 12 months and beyond. This may involve incurring additional debt or raising equity capital for our business. Additional capital raising activities will dilute the ownership interests of existing stockholders to the extent we raise capital by issuing equity securities and we cannot assure you that we will be successful in raising additional capital on favorable terms or at all.

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Critical Accounting Policies

The critical accounting policies underlying the accompanying unaudited consolidated financial statements are those set forth in Part II, Item 7 included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2013, which was filed with the SEC on March 14, 2014.

Impact of Foreign Currencies

Our international operations in some instances operate in a natural hedge as we sell our products in many countries and a substantial portion of our revenues, costs and expenses are denominated in foreign currencies, especially the British pound sterling, the Euro and the Swedish krona.

Changes in foreign currency exchange rates resulted in increases in revenues of \$1.5 million and expenses of \$1.3 million during the nine months ended September 30, 2014. Changes in foreign currency exchange rates resulted in decreases in revenues of \$0.1 million and expenses of \$0.1 million during the nine months ended September 30, 2013.

The loss associated with the translation of foreign equity into U.S. dollars included as a component of comprehensive income, was approximately \$3.2 million and \$2.6 million during the three and nine months ended September 30, 2014, respectively, compared to a gain of \$2.4 million and \$0.5 million during the three and nine months ended September 30, 2013, respectively. In addition, currency exchange rate fluctuations included as a component of net income resulted in approximately \$0 and \$148,000 in foreign currency losses during the three and nine months ended September 30, 2014, respectively, compared to \$84,000 and \$74,000 in foreign currency losses during the three and nine months ended September 30, 2013, respectively.

Recently Issued Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2014-09, "Revenue from Contracts with Customers," a new accounting standard that provides for a comprehensive model to use in the accounting for revenue arising from contracts with customers that will replace most existing revenue recognition guidance in U.S. GAAP. Under this standard, revenue will be recognized to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which we expect to be entitled in exchange for those goods or services. This standard will be effective as of the beginning of our 2017 fiscal year. We are assessing the new standard and have not yet determined the impact to our consolidated financial statements.

Item 3. Quantitative and Qualitative Disclosures about Market Risk.

The majority of our manufacturing and testing of products occurs in our facilities in the United States, the United Kingdom, Germany, Sweden and Spain. We sell our products globally through our direct catalog sales, our websites, direct sales force and indirect distributor channels. As a result, our financial results are affected by factors such as changes in foreign currency exchange rates and weak economic conditions in foreign markets.

We collect amounts representing a substantial portion of our revenues and pay amounts representing a substantial portion of our operating expenses in foreign currencies. As a result, changes in currency exchange rates from time to time may affect our operating results.

We are exposed to market risk from changes in interest rates primarily through our financing activities. As of September 30, 2014, we had \$23.2 million outstanding under our Credit Agreement. The purpose of the Credit Agreement was to convert our existing outstanding revolving advances into a Term Loan in the principal amount of

\$15.0 million, provide a Revolving Line facility in the maximum principal amount of \$25.0 million, and provide a DDTL of up to \$10.0 million, reduced from \$15.0 million as discussed below, to fund capital contributions to our subsidiary, HART. The Revolving Line has a maturity date of March 29, 2016, while the Term Loan and DDTL have a maturity date of March 29, 2018. On October 31, 2013, we amended the Credit Agreement to reduce the DDTL from up to \$15.0 million to up to \$10.0 million and allow for an additional \$5.0 million to be available for drawing as advances under the Revolving Line.

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Borrowings under the Term Loan and the DDTL shall bear interest at a rate based on either the effective London Interbank Offered Rate (LIBOR) for certain interest periods selected by us, or a daily floating rate based on the BBA LIBOR as published by Reuters (or other commercially available source providing quotations of BBA LIBOR), plus in either case, a margin of 3.0%. The Revolving Line shall bear interest at a rate based on either the effective LIBOR for certain interest periods selected by us, or a daily floating rate based on the BBA LIBOR, plus in either case, a margin of 2.5%. We were required to fix the rate of interest on at least 50% of the Term Loan and the DDTL through the purchase of an interest rate swap. The Term Loan and DDTL each have interest payments due at the end of the applicable LIBOR period, or monthly with respect to BBA LIBOR borrowings, and principal payments are due quarterly. The Revolving Line has interest payments due at the end of the applicable LIBOR period, or monthly with respect to BBA LIBOR borrowings. Effective June 5, 2013, we entered into an interest rate swap contract with an original notional amount of \$15.0 million and a maturity date of March 29, 2018 in order to hedge the risk of changes in the effective benchmark interest rate (LIBOR) associated with our Term Loan. The swap contract converted specific variable-rate debt into fixed-rate debt and fixed LIBOR associated with the Term Loan at 0.96% plus a bank margin of 3.0%. Effective November 29, 2013, we entered into a second interest rate swap contract with an original notional amount of \$5.0 million and a maturity date of March 29, 2018 in order to hedge the risk of changes in LIBOR associated with a portion of our DDTL. The swap contract converted specific variable-rate debt into fixed rate debt and fixed LIBOR associated with half of the DDTL amount at 0.93% plus a bank margin of 3.0%. The notional amount of our derivative instruments as of September 30, 2014 was \$14.5 million. These swap contracts were associated with reducing or eliminating interest rate risk and were designated as cash flow hedge instruments in accordance with ASC 815. We use interest-rate-related derivative instruments to manage our exposure related to changes in interest rates on our variable-rate debt instruments. We do not enter into derivative instruments for any purpose other than cash flow hedging and we do not speculate using derivative instruments.

As of September 30, 2014, the weighted effective interest rates on our Term Loan, DDTL and Revolving Line borrowings were 3.96%, 3.54% and 2.65%, respectively. Assuming no other changes which would affect the margin of the interest rate under our Term Loan, DDTL and Revolving Line, the effect of interest rate fluctuations on outstanding borrowings under our Credit Agreement as of September 30, 2014 over the next twelve months is quantified and summarized as follows:

	Interest expense increase (in thousands)
If compared to the rate as of September 30, 2014	
Interest rates increase by 1%	\$ 87
Interest rates increase by 2%	\$ 174

Item 4. Controls and Procedures.

Disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) are designed to ensure that information required to be disclosed in reports filed or submitted under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in SEC rules and forms and that such information is accumulated and communicated to management, including the Chief Executive Officer and the Chief Financial Officer, to allow timely decisions regarding required disclosures.

As required by Rules 13a-15(e) and 15d-15(e) under the Exchange Act, our management, under the supervision and with the participation of our Chief Executive Officer and Chief Financial Officer, conducted an evaluation of the effectiveness of the design and operation of our disclosure controls and procedures as of September 30, 2014. Our disclosure controls and procedures are designed to provide reasonable assurance that information required to be

disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and our management necessarily was required to apply its judgment in evaluating and implementing our disclosure controls and procedures. Based upon the evaluation described above, our Chief Executive Officer and Chief Financial Officer have concluded that they believe that our disclosure controls and procedures were effective, as of the end of the period covered by this Quarterly Report on Form 10-Q, in providing reasonable assurance that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, to allow timely decisions regarding required disclosures, and is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms.

We continue to review our internal controls over financial reporting, and may from time to time make changes aimed at enhancing their effectiveness and to ensure that our systems evolve with our business. These efforts have led to various changes in our internal controls over financial reporting. There were no changes in our internal controls over financial reporting that occurred during the three and nine months ended September 30, 2014 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

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PART II. OTHER INFORMATION

Item 1A. Risk Factors.

To our knowledge, and except to the extent additional factual information disclosed in this Quarterly Report on Form 10-Q relates to such risk factors, there has been no material changes in the risk factors described in “Item 1A. Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2013, which was filed with the SEC on March 14, 2014, as amended by the risk factors described in “Item 1A. Risk Factors” in our Quarterly Report on Form 10-Q for the period ended March 31, 2014, which was filed with the SEC on May 8, 2014.

Item 6. Exhibits

Exhibit
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31.1+ Certification of Chief Financial Officer of Harvard Bioscience, Inc., pursuant to Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.

31.2+ Certification of Chief Executive Officer of Harvard Bioscience, Inc., pursuant to Rules 13a-14(a) and 15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.

32.1* Certification of Chief Financial Officer of Harvard Bioscience, Inc., pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

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101.INS** XBRL Instance Document

101.SCH** XBRL Taxonomy Extension Schema Document

101.CAL** XBRL Taxonomy Extension Calculation Linkbase Document

101.LAB** XBRL Taxonomy Extension Labels Linkbase Document

101.PRE** XBRL Taxonomy Extension Presentation Linkbase Document

101.DEF** XBRL Taxonomy Extension Definition Linkbase Document

+ Filed herewith.

* This certification shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, or otherwise subject to the liability of that section, nor shall it be deemed to be incorporated by reference into any filing under the Securities Act of 1933 or the Securities Exchange Act of 1934.

** XBRL (Extensive Business Reporting Language) information is furnished and not filed or a part of a registration statement or prospectus for purposes of sections 11 or 12 of the Securities Act of 1933, is deemed not filed for purposes of Section 18 of the Securities Exchange Act of 1934, and otherwise is not subject to liability under these sections.

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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 undersigned thereunto duly authorized.

Date: November 6, 2014

HARVARD BIOSCIENCE, INC.

By: /S/ JEFFREY A. DUCHEMIN
Jeffrey A. Duchemin
Chief Executive Officer

By: /S/ ROBERT E. GAGNON
Robert E. Gagnon
Chief Financial Officer

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