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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 March 31, 2008

☐ **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 000-31923

HARVARD BIOSCIENCE, INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware	**04-3306140**
(State or Other Jurisdiction of Incorporation or Organization)	**(IRS Employer Identification No.)**
84 October Hill Road, Holliston, MA	**01746**
(Address of Principal Executive Offices)	**(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 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

APPLICABLE ONLY TO CORPORATE ISSUERS:

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

As of May 2, 2008, there were 30,925,514 shares of Common Stock, par value $0.01 per share, outstanding.

HARVARD BIOSCIENCE, INC.

Form 10-Q
For the Quarter Ended March 31, 2008

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PART I. FINANCIAL INFORMATION

Item 1. Financial Statements.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
CONSOLIDATED BALANCE SHEETS
(unaudited, in thousands, except share and per share amounts)

	March 31, 2008	December 31, 2007
Assets		
Current assets:		
Cash and cash equivalents	$ 12,459	$ 17,889
Accounts receivable, net of allowance for doubtful accounts of $409 and $378, respectively	14,080	14,757
Inventories	16,209	14,983
Other receivables and other assets	3,160	2,414
Assets of discontinued operations - held for sale	3,719	4,268
Total current assets	49,627	54,311
Property, plant and equipment, net	4,469	4,465
Deferred income tax assets - non-current	346	346
Amortizable intangible assets, net	10,418	10,640
Goodwill and other indefinite lived intangible assets	29,479	29,028
Other assets	221	63
Total assets	$ 94,560	$ 98,853
Liabilities and Stockholders' Equity		
Current liabilities:		
Notes payable	$ 2,212	$ 2,169
Accounts payable	5,687	5,611
Deferred revenue	439	442
Accrued income taxes payable	816	1,091
Accrued expenses	3,678	4,129
Other liabilities - current	845	1,128
Liabilities of discontinued operations	1,410	1,771
Total current liabilities	15,087	16,341
Long-term debt, less current installments	101	5,578
Deferred income tax liabilities - non-current	1,641	1,560
Other liabilities - non-current	1,108	1,237
Total liabilities	17,937	24,716
Commitments and contingencies		
Stockholders' equity:		
Preferred stock, par value $0.01 per share, 5,000,000 shares authorized	—	—
Common stock, par value $0.01 per share, 80,000,000 shares authorized; 35,586,298 and 35,512,680 shares issued and 30,925,514 and 30,851,896 shares outstanding, respectively	356	355
Additional paid-in-capital	179,810	179,153
Accumulated deficit	(110,676)	(111,363)
Accumulated other comprehensive income	7,801	6,660
Treasury stock, 4,660,784 common shares, at cost	(668)	(668)
Total stockholders' equity	76,623	74,137
Total liabilities and stockholders' equity	$ 94,560	$ 98,853

See accompanying notes to unaudited consolidated financial statements.

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HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF OPERATIONS
(unaudited, in thousands, except per share amounts)

	Three Months Ended March 31,	
	2008	2007
Revenues	$21,959	$19,115
Cost of product revenues	11,628	9,694
Gross profit	10,331	9,421
Sales and marketing expenses	2,841	2,470
General and administrative expenses	3,756	3,403
Research and development expenses	1,081	844
Restructuring charges	581	—
Amortization of intangible assets	506	442
Total operating expenses	8,765	7,159
Operating income	1,566	2,262
Other income (expense):		
Foreign exchange	193	24
Interest expense	(130)	(61)
Interest income	78	56
Other, net	54	(6)
Other income, net	195	13
Income from continuing operations before income taxes	1,761	2,275
Income taxes	544	533
Income from continuing operations	1,217	1,742
Discontinued operations, net of tax	(530)	(1,246)
Net income	$ 687	$ 496
Income (loss) per share:		
Basic earnings per common share from continuing operations	$ 0.04	$ 0.06
Discontinued operations	(0.02)	(0.04)
Basic earnings per common share	$ 0.02	$ 0.02
Diluted earnings per common share from continuing operations	$ 0.04	$ 0.06
Discontinued operations	(0.02)	(0.04)
Diluted earnings per common share	$ 0.02	$ 0.02
Weighted average common shares:		
Basic	30,875	30,567
Diluted	31,445	31,394

See accompanying notes to unaudited consolidated financial statements.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CASH FLOWS
(unaudited, in thousands)

	Three Months Ended March 31,	
	2008	2007
Cash flows from operating activities:		
Net income	$ 687	$ 496
Adjustments to reconcile net income to net cash provided by operating activities:		
Stock compensation expense	434	456
Depreciation	198	324
Restructuring charges	839	—
Amortization of catalog costs	49	40
Loss on sale of property, plant and equipment	13	18
Amortization of intangible assets	506	442
Amortization of deferred financing costs	6	6
Deferred income taxes	32	(11)
Changes in operating assets and liabilities, net of effects of acquisitions:		
Decrease in accounts receivable	2,032	2,096
Increase in inventories	(1,242)	(641)
(Increase) decrease in other receivables and other assets	(493)	53
Decrease in trade accounts payable	(106)	(1,246)
Increase (decrease) in accrued income taxes payable	(463)	831
Decrease in accrued expenses	(1,644)	(1,472)
Increase (decrease) in deferred revenue	(7)	482
Decrease in other liabilities	(129)	(21)
Net cash provided by operating activities	712	1,853
Cash flows from investing activities:		
Additions to property, plant and equipment	(316)	(541)
Additions to catalog costs	(372)	—
Net cash used in investing activities	(688)	(541)
Cash flows from financing activities:		
Repayments of debt	(5,615)	(1,500)
Net proceeds from issuance of common stock	224	24
Net cash used in financing activities	(5,391)	(1,476)
Effect of exchange rate changes on cash	216	(16)
Decrease in cash and cash equivalents	(5,151)	(180)
Cash and cash equivalents at the beginning of period	18,204	9,751
Cash and cash equivalents at the end of period	$13,053	$ 9,571
Supplemental disclosures of cash flow information:		
Cash paid for interest	$ 159	$ 55
Net cash paid for income taxes	$ 961	$ 551

Note: The above statement of cash flows includes both continuing and discontinued operations. Cash and cash equivalents include $12,459 held by continuing operations and $594 held by discontinued operations as of March 31, 2008.

See accompanying notes to unaudited consolidated financial statements.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
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 the "Company") as of March 31, 2008 and for the three months ended March 31, 2008 and 2007 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 have been condensed or omitted pursuant to such rules and regulations. The December 31, 2007 consolidated balance sheet was derived from audited financial statements, but does not include all disclosures required by U.S. generally accepted accounting principles. 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, 2007, as amended.

In the opinion of management, all adjustments, which include normal recurring adjustments necessary to present a fair statement of financial position as of March 31, 2008, results of operations for the three months ended March 31, 2008 and 2007 and cash flows for the three months ended March 31, 2008 and 2007, as applicable, have been made. The results of operations for the three months ended March 31, 2008 are not necessarily indicative of the operating results for the full fiscal year or any future periods.

As discussed in Note 3, the Company has decided to divest its Capital Equipment Business segment. Accordingly, the results of operations of this business segment have been reported as discontinued operations.

Reclassifications

Certain other reclassifications to prior year balances have been made to conform to current year presentations.

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, 2007, as amended, filed with the SEC.

2. Recently Issued Accounting Pronouncements

In September 2006, the Financial Accounting Standards Board ("FASB") issued Statement of Financial Accounting Standard ("SFAS") No. 157, *Fair Value Measurements*. This statement defines fair value, establishes a framework for measuring fair value in generally accepted accounting principles, and expands disclosures about fair value. This statement is effective for financial statements issued for fiscal years and interim periods within those fiscal years, beginning after November 15, 2007. The adoption of SFAS No. 157 did not have a material impact on the Company's consolidated results of operations or financial position.

In February 2008, the FASB issued FASB Staff Position ("FSP") FAS 157-2, *Effective Date of FASB Statement No. 157*, which delays the effective date of SFAS No. 157 for nonfinancial assets and nonfinancial liabilities that are not remeasured at fair value on a recurring basis (at least annually) until fiscal years beginning after November 15, 2008, and interim periods within those fiscal years. The Company is in the process of evaluating the impact the adoption of FSP 157-2 will have its consolidated financial position and results of operations.

In February, 2007, the FASB issued SFAS No. 159, *The Fair Value Option for Financial Assets and Liabilities Including an Amendment of FASB Statement No. 115.* SFAS No. 159 permits reporting entities to choose to measure eligible financial assets or liabilities, which include marketable securities available-for-sale and equity method investments, at fair value at specified election dates, or according to a preexisting policy for specific types of eligible items. Unrealized gains and losses for which the fair value option has been elected are reported in earnings. SFAS No. 159 is effective for fiscal years beginning after November 15, 2007. Early adoption is permitted as of the beginning of a fiscal year that begins on or before November 15, 2007. The adoption of SFAS No. 159 did not have a material impact on the Company's consolidated results of operations or financial position.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
Notes to Unaudited Consolidated Financial Statements (Continued)

In December 2007, the FASB issued SFAS No. 141 (revised 2007), *Business Combinations*. SFAS No. 141(R) retains the fundamental requirements of the original pronouncement requiring that the purchase method be used for all business combinations. SFAS 141(R) defines the acquirer as the entity that obtains control of one or more businesses in the business combination, establishes the acquisition date as the date that the acquirer achieves control and requires the acquirer to recognize the assets acquired, liabilities assumed and any noncontrolling interest at their fair values as of the acquisition date. SFAS No. 141(R) also requires that acquisition-related costs be recognized separately from the acquisition. This Statement applies prospectively to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008 and may not be applied before that date. The Company is in the process of evaluating the impact the adoption of SFAS No. 141(R) will have its consolidated financial position and results of operations.

In December 2007, the FASB issued SFAS No. 160, *Noncontrolling Interests in Consolidated Financial Statements, An Amendment of ARB No. 51.* SFAS No. 160 amends Accounting Research Bulletin ("ARB") 51 to establish accounting and reporting standards for the noncontrolling interest in a subsidiary and for the deconsolidation of a subsidiary. It also amends certain of ARB 51's consolidation procedures for consistency with the requirements of FASB Statement No. 141(R). This statement is effective for fiscal years, and interim periods within those fiscal years, beginning on or after December 15, 2008. The statement shall be applied prospectively as of the beginning of the fiscal year in which the statement is initially adopted. The Company is currently evaluating SFAS 160 and the impact that it may have on results of operations or financial position.

3. Discontinued Operations

In July 2005, the Company announced plans to divest its Capital Equipment Business segment. The decision to divest this business was based on the fact that market conditions for the Capital Equipment Business segment were such that this business had not met expectations and the decision to focus resources on the Apparatus and Instrumentation Business segment. As a result, the Company began reporting its Capital Equipment Business segment as a discontinued operation in the third quarter of 2005.

In November 2007, the Company completed the sale of the assets of its Genomic Solutions Division and the stock of its Belgian subsidiary, MAIA Scientific, both of which were part of its Capital Equipment Business Segment, to Digilab, Inc. The purchase price paid by Digilab under the terms of the Asset Purchase Agreement consisted of $1,000,000 in cash plus additional consideration in the form of an earn-out based on 20% of the revenue generated by the acquired business as it is conducted by Digilab over a three-year period post-transaction. Any earn-out amounts will be evidenced by interest bearing promissory notes due on November 30, 2012. During the fourth quarter, the Company recorded a loss on sale of $3.1 million. There was no value ascribed to the contingent consideration from the earn-out agreement, as realization is uncertain. The COPAS flow cytometry product line (held by our Union Biometrica US and German subsidiaries, both of which are still included in discontinued operations), was not included in this sale, and the Company continues to pursue a sale of this product line separately.

The loss from discontinued operations, net of tax, was $0.5 million for the three months ended March 31, 2008, compared to a loss of $1.2 million for the same period in 2007. For the three months ended March 31, 2008, the loss from discontinued operations, net of tax includes the operating results of the Company's Union Biometrica US and German subsidiaries. For the three months ended March 31, 2007, the loss from discontinued operations, net of tax, included the operating results of the Company's former Genomic Solutions Division, of its former MAIA Scientific subsidiary, and its current Union Biometrica US and German subsidiaries

Operating results from the Capital Equipment Business segment were as follows:

	Three Months Ended March 31,	
	2008	2007
	(in thousands)	
Total revenues	$ 495	$ 3,781
Pretax loss	(530)	(1,315)
Income tax expense	—	(69)
Net loss	$ (530)	$ (1,246)

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
Notes to Unaudited Consolidated Financial Statements (Continued)

Assets and liabilities of the Capital Equipment Business segment were as follows:

	March 31, 2008	December 31, 2007
	(in thousands)	
Assets		
Cash and cash equivalents	$ 594	$ 315
Accounts receivable, net	818	1,863
Inventories	523	405
Other assets	654	555
Long-lived assets	1,130	1,130
Total assets	$ 3,719	$ 4,268
Liabilities		
Total liabilities	$ 1,410	$ 1,771

4. Goodwill and Other Intangible Assets

Intangible assets consist of the following:

	March 31, 2008		December 31, 2007		Weighted Average Life (a)
	(in thousands)				
	Gross	Accumulated Amortization	Gross	Accumulated Amortization	
Amortizable intangible assets:					
Existing technology	$12,654	$ (6,403)	$12,389	$ (6,009)	6.5 years
Tradename	920	(511)	920	(496)	6.8 years
Distribution agreement/customer relationships	6,416	(2,663)	6,291	(2,460)	7.7 years
Patents	9	(4)	9	(4)	8.1 years
Total amortizable intangible assets	$19,999	$ (9,581)	$19,609	$ (8,969)	
Unamortizable intangible assets:					
Goodwill	$28,063		$27,646		
Other indefinite lived intangible assets	1,416		1,382		
Total goodwill and other indefinite lived intangible assets	$29,479		$29,028		
Total intangible assets	$49,478		$48,637		

(a) Weighted average life is as of March 31, 2008.

The change in the carrying amount of goodwill for the three months ended March 31, 2008 is as follows:

	(in thousands)
Balance at December 31, 2007	$ 27,646
Effect of change in foreign currencies	417
Balance at March 31, 2008	$ 28,063

Intangible asset amortization expense from continuing operations was $0.5 million and $0.4 million for the three months ended March 31, 2008 and 2007, respectively. Amortization expense of existing amortizable intangible assets is estimated to be $2.0 million for the year ending December 31, 2008, $1.7 million for the year ending December 31, 2009, $1.5 million for the years ending December 31, 2010 and 2011 and $1.0 million for the year ending December 31, 2012.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
Notes to Unaudited Consolidated Financial Statements (Continued)

5. Inventories

Inventories consist of the following:

	March 31, 2008	December 31, 2007
	(in thousands)	
Finished goods	$ 5,218	$ 5,472
Work in process	1,821	1,665
Raw materials	9,170	7,846
Total	$ 16,209	$ 14,983

6. Restructuring and Other Exit Costs

During the quarter ended March 31, 2008, the management of Harvard Bioscience committed to an ongoing initiative to consolidate business functions to reduce operating expenses. Our recent actions have been related to the separation of our electrophoresis product lines from our spectrophotometer and plate reader product lines. As part of these initiatives we have made changes in management, completed the consolidation of the Hoefer electrophoresis administrative and marketing operations from San Francisco, California to the headquarters of the Harvard Apparatus subsidiary in Holliston, Massachusetts and initiated the consolidation of the activities of our Asys Hitech subsidiary in Austria to the Company's Biochrom subsidiary's facility located in Cambridge, UK.

During the quarter ended March 31, 2008, we recorded charges related to the restructuring of approximately $0.8 million. These charges were comprised of $0.4 million in severance payments, $0.3 million in inventory impairment charges related to the discontinuance of certain product lines (included in cost of product revenues) and $0.2 million in various other costs.

Restructuring charges are as follows:

	Severance and Related	Inventory	Facility Closure Costs	Other	Total
			(in thousands)		
Restructuring charges	$ 415	$ 259	$ —	$ 165	$ 839
Cash payments	(258)	—	—	(41)	(299)
Non-cash charges	—	(259)	—	(118)	(377)
March 31, 2008 accrual balance	$ 157	$ —	$ —	$ 6	$ 163

7. Warranties

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

	Beginning Balance	Payments	Additions	Ending Balance
		(in thousands)		
Year ended December 31, 2007	$ 179	(226)	286	$ 239
Three months ended March 31, 2008	$ 239	(16)	32	$ 255

8. Comprehensive Income

As of March 31, 2008, accumulated other comprehensive income consisted of cumulative foreign currency translation adjustments of $8.7 million and the underfunded status of the Company's pension plans, in accordance with SFAS No. 158, *Employers' Accounting for Defined Benefit Pension and Other Postretirement Plans-an amendment of FASB Statements No. 87, 88, 106 and 132(R)*, of $(0.9) million, net of tax. As of March 31, 2007, accumulated other comprehensive income consisted of cumulative foreign currency translation adjustments of $7.9 million and the underfunded status of the Company's pension plans of $(1.6) million, net of tax.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
Notes to Unaudited Consolidated Financial Statements (Continued)

The components of total comprehensive income were as follows:

	Three Months Ended March 31,	
	2008	2007
	(in thousands)	
Net income	$ 687	$ 496
Other comprehensive income	1,141	173
Comprehensive income	$ 1,828	$ 669

Other comprehensive income for the three months ended March 31, 2008 and 2007 consisted of foreign currency translation adjustments.

9. Employee Benefit Plans

Certain of the Company's United Kingdom subsidiaries, Harvard Apparatus Limited and Biochrom Limited, maintain contributory, defined benefit or defined contribution pension plans for substantially all of their employees. The components of the Company's defined benefit pension expense were as follows:

	Three Months Ended March 31,	
	2008	2007
	(in thousands)	
Components of net periodic benefit cost:		
Service cost	$ 99	$ 142
Interest cost	228	203
Expected return on plan assets	(242)	(226)
Net amortization loss	16	33
Net periodic benefit cost	$ 101	$ 152

For the three months ended March 31, 2008 and 2007, the Company made no contribution to the defined benefit plans. The Company expects to contribute approximately $0.5 million to the defined benefit plans during 2008.

10. 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.

Stock Repurchase Program

On December 6, 2007, the Board of Directors authorized the repurchase by the Company of up to $10 million of its common stock in the open market or through privately negotiated transactions over the next 24 months. Under the program, shares may be repurchased from time to time and in such amounts as market conditions warrant, subject to regulatory considerations and any applicable contractual restrictions. As of March 31, 2008, no shares have been repurchased by the Company pursuant to this repurchase program.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
Notes to Unaudited Consolidated Financial Statements (Continued)

Employee Stock Purchase Plan

In 2000, the Company approved a stock purchase plan. Under this plan, 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 plan for the six-month periods ending June 30 and December 31. Under this plan, 500,000 shares of common stock are authorized for issuance of which 245,862 shares were issued as of March 31, 2008. During the three months ended March 31, 2008 and 2007, the Company issued no shares under the Employee Stock Purchase Plan.

The Company accounts for share-based payment awards in accordance with the provisions of SFAS No. 123 (revised 2004), *Share-Based Payment*, ("SFAS No.123(R)"), which was adopted as of January 1, 2006 using the modified prospective transition method. Stock-based compensation expense recognized under SFAS No. 123(R) for the three months ended March 31, 2008 and 2007 was $0.4 million and $0.5 million, respectively, which consisted of stock-based compensation expense related to employee stock options and the employee stock purchase plan.

Stock Option Plans

1996 Stock Option and Grant Plan

In 1996, the Company adopted the 1996 Stock Option and Grant Plan (the "1996 Stock Plan") pursuant to which the Company's Board of Directors could grant stock options to employees, directors and consultants. The 1996 Stock Plan authorized grants of options to purchase 4,072,480 shares of authorized but unissued common stock. In 2000, the 1996 Stock Plan was replaced by the 2000 Stock Option and Incentive Plan. As of March 31, 2008, there were options to purchase 127,122 shares outstanding under the 1996 Stock Plan. During the three months ended March 31, 2008 and 2007, no shares were issued under the 1996 Stock Plan.

Amended and Restated 2000 Stock Option and Incentive Plan

The Amended and Restated 2000 Stock Option and Incentive Plan (the "2000 Plan" and, together with the 1996 Stock Plan, the "Stock Plans") was originally adopted by the Board of Directors on October 26, 2000, approved by the stockholders on November 29, 2000, and amended by the Board of Directors on April 5, 2006. Such amendment to the 2000 Plan, which included an increase in the number of shares available thereunder by 2,000,000, was approved by the stockholders at the Company's 2006 Annual Meeting. The 2000 Plan permits the Company to make grants of incentive stock options, non-qualified stock options, stock appreciation rights, deferred stock awards, restricted stock awards, unrestricted stock awards, performance shares and dividend equivalent rights. The Company has currently reserved 6,867,675 shares of common stock for the issuance of awards under the 2000 Plan. As of March 31, 2008, there were options to purchase 5,475,793 shares outstanding and 644,227 shares available for grant under the 2000 Stock Plan.

As of March 31, 2008 and 2007, incentive stock options to purchase 6,355,484 and 6,209,926 shares and non-qualified stock options to purchase 5,636,061 and 4,524,619 shares, respectively, had been granted to employees and directors under the Stock Plans. Generally, both the incentive stock options and the non-qualified stock options become fully vested over a four-year period, with one-quarter of the options vesting on each of the first four anniversaries of the grant date.

During the three months ended March 31, 2008, 120,000 stock options were granted to employees and directors at exercise prices equal to or greater than fair market value of the Company's common stock on the date of grant. During the three months ended March 31, 2007, no stock options were granted.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
Notes to Unaudited Consolidated Financial Statements (Continued)

Distribution and Dilutive Effect of Options

The following table illustrates the dilution (accretion) resulting from the grant of options and exercise of options, which is referred to as the grant dilution and exercise dilution, respectively, during the periods described below.

	Three Months Ended March 31,	
	2008	2007
Shares of common stock outstanding	30,925,514	30,570,872
Granted	120,000	—
Canceled / forfeited	(230,836)	(40,062)
Net options granted	(110,836)	(40,062)
Grant accretion (1)	-0.36%	-0.13%
Exercised	73,618	8,464
Exercise dilution (2)	0.24%	0.03%

(1) The percentage for grant accretion is computed based on net options granted (cancelled/forfeited) as a percentage of shares of common stock outstanding.
(2) The percentage for exercise dilution is computed based on net options exercised as a percentage of shares of common stock outstanding.

Basic income per share is based upon net income divided by the number of weighted average common shares outstanding during the period. The calculation of diluted net income per share assumes conversion of stock options 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 March 31,	
	2008	2007
Basic	30,874,632	30,567,363
Effect of assumed conversion of employee and director stock options	570,565	826,749
Diluted	31,445,197	31,394,112

Excluded from the shares used in calculating the diluted earnings per common share in the above table are options to purchase approximately 3,977,418 and 3,146,700 shares of common stock for the three months ended March 31, 2008 and 2007, respectively, as the impact of these shares would be anti-dilutive.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
Notes to Unaudited Consolidated Financial Statements (Continued)

General Option Information

A summary of stock option transactions follows:

	Options Available for Grant	Options Outstanding	Weighted Average Exercise Price
Balance at December 31, 2005	354,138	4,281,282	$ 5.29
Approved by shareholders	2,000,000	—	—
Options granted	(1,185,000)	1,185,000	4.36
Options exercised	—	(52,192)	2.47
Options cancelled / forfeited	167,691	(167,691)	5.81
Balance at December 31, 2006	1,336,829	5,246,399	$ 5.09
Options granted	(1,137,000)	1,137,000	5.41
Options exercised	—	(262,468)	2.33
Options cancelled / forfeited	333,562	(333,562)	5.71
Balance at December 31, 2007	533,391	5,787,369	$ 5.24
Options granted	(120,000)	120,000	4.60
Options exercised	—	(73,618)	3.04
Options cancelled / forfeited	230,836	(230,836)	6.13
Balance at March 31, 2008	644,227	5,602,915	$ 5.22

The Company has a policy of issuing stock out of its registered but unissued stock pool through its transfer agent to satisfy stock option exercises.

The following table summarizes information concerning currently outstanding and exercisable options as of March 31, 2008 (Aggregate Intrinsic Value in thousands):

	Options Outstanding				Options Exercisable		
Range of Exercise Price	Number Outstanding at March 31, 2008	Weighted Average Remaining Contractual Life in Years	Weighted Average Exercise Price	Aggregate Intrinsic Value	Shares Exercisable at March 31, 2008	Weighted Average Exercise Price	Aggregate Intrinsic Value
$0.01-3.15	826,033	5.76	$ 2.69	$ 1,909	707,283	$ 2.64	$ 1,670
$3.15-4.23	856,382	5.67	$ 3.50	1,286	750,718	$ 3.46	1,153
$4.23-4.96	1,311,000	8.16	$ 4.44	740	579,250	$ 4.43	332
$4.96-7.87	1,462,500	7.3	$ 6.05		673,500	$ 6.77	—
$7.87-10.00	1,147,000	5.4	$ 8.16	—	1,147,000	$ 8.16	—
$0.01-10.00	5,602,915	6.64	$ 5.22	$ 3,935	3,857,751	$ 5.43	$ 3,155

The aggregate intrinsic value in the preceding table represents the total pre-tax intrinsic value, based on the Company's closing stock price of $5.00 as of March 31, 2008, which would have been received by the option holders had all option holders exercised their options as of that date. The aggregate intrinsic value of options exercised for the three months ended March 31, 2008 and 2007, respectively, was approximately $0.1 million and $19,200, respectively. The total number of in-the-money options that were exercisable as of March 31, 2008 was 2,037,251.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
Notes to Unaudited Consolidated Financial Statements (Continued)

Valuation and Expense Information under SFAS No. 123(R)

Stock-based compensation expense related to employee stock options and the employee stock purchase plan under SFAS No. 123(R) for the three months ended March 31, 2008 and 2007, respectively, was allocated as follows:

	Three Months Ended March 31,	
	2008	2007
	(in thousands)	
Cost of sales	$ 10	$ 9
Sales and marketing	35	26
General and administrative	384	406
Research and development	1	1
Discontinued operations	4	14
Total stock-based compensation	$ 434	$ 456

The Company did not capitalize any stock-based compensation. No significant tax benefit on the stock-based compensation was recorded in the three months ended March 31, 2008 and 2007 since the Company has established a valuation allowance against net deferred tax assets.

The weighted-average estimated value of employee stock options granted during the three months ended March 31, 2008 was $2.54 per share, using the Black Scholes option-pricing model with the following weighted-average assumptions:

	Three Months Ended March 31, 2008
Volatility	55.98%
Risk-free interest rate	3.1%
Expected holding period	6.06 years
Dividend yield	0.00%

No stock options were granted by the Company during the three months ended March 31, 2007.

The Company used historical volatility to calculate its expected volatility as of March 31, 2008. 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 Treasury bill interest rates (risk free) appropriate for the term of the Company's employee stock options. The expected life of employee stock options represents the period of time options are expected to be outstanding and were based on historical experience.

Stock-based compensation expense recognized in the Consolidated Statement of Operations for the three months ended March 31, 2008 and 2007, is based on awards ultimately expected to vest and has been reduced for annualized estimated forfeitures of 4.52% and 2.94%, respectively. SFAS No. 123(R) requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. Forfeitures were estimated based on historical experience.

HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
Notes to Unaudited Consolidated Financial Statements (Continued)

11. Segment and Related Information

During the quarter ended June 30, 2005, the Company realigned its lines of business into two business segments, the Apparatus and Instrumentation Business segment and the Capital Equipment Business segment. Corporate costs of $1.7 million and $1.3 million for the three months ended March 31, 2008 and 2007, respectively, are all included in general and administrative expenses from continuing operations and are not allocated for purposes of segment reporting. Included in corporate costs are $0.4 million and $0.3 million for the three months ended March 31, 2008 and 2007, respectively, of stock compensation expense related to the adoption of SFAS No. 123(R). See Note 10-Capital Stock.

During the quarter ended September 30, 2005, the Company announced plans to divest its Capital Equipment Business segment. The decision to divest this business segment was based on the fact that market conditions for the Capital Equipment Business were such that this business had not met the Company's expectations and the decision to focus Company resources on the Apparatus and Instrumentation Business segment. As a result, the Company began reporting the Capital Equipment Business segment as a discontinued operation in the third quarter of 2005. In November 2007, the Company completed the sale of the assets of its Genomic Solutions Division and the stock of its Belgian subsidiary, Maia Scientific, both of which were part of its Capital Equipment Business Segment, to Digilab, Inc. The COPAS flow cytometry product line (held by our Union Biometrica US and German subsidiaries), was not included in this sale, and the Company continues to pursue a sale of this product line in a separate transaction. See Note 3-Discontinued Operations.

12. Revolving Credit Facility

During 2003, the Company entered into a $20.0 million credit facility with Brown Brothers Harriman & Co. On December 1, 2006, the Company amended the terms of the credit facility. This amendment changed the terms of the Company's current $20.0 million credit facility, by allowing borrowing of up to $10.0 million in British Pound Sterling or Eurocurrency and extending the maturity date from January 1, 2007 to December 1, 2009. The amended credit facility bears interest at either (1) the base rate announced by BBH from time to time, (2) the London Interbank Offered Rate ("LIBOR") or (3) the Eurocurrency base rate, plus, in the case of LIBOR or the Eurocurrency base rate, a margin of 2.5% or 2.75% depending on the Company's debt service leverage ratio. As of March 31, 2008, we had no debt outstanding under our revolving credit facility.

As of March 31, 2008, the Company is in compliance with financial covenants contained in the credit facility involving income, debt coverage and cash flow, as well as minimum working capital requirements. Additionally, the credit facility also contains limitations on the Company's ability to incur additional indebtedness and requires creditor 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. The Company does not believe that these requirements will be a significant constraint on its operations or on the acquisition portion of its growth strategy. As of March 31, 2008, there was no debt outstanding under the credit facility compared to $5.5 million as of December 31, 2007. As of March 31, 2008, the Company was not subject to any borrowing restrictions under the covenants and had available borrowing capacity under its revolving credit facility of $20.0 million.

Under the terms of its credit facility, the Company will be required to obtain consent from its lenders upon the sale of the remaining portion of its Capital Equipment Business segment. If the Company is unable to obtain this consent, the sale of the remaining portion of the Capital Equipment Business segment will trigger a default under the credit facility whereby its lenders could accelerate all of the outstanding indebtedness and terminate the credit facility.

In connection with the Company's acquisition of Panlab, the Company assumed several working capital lines of credit totaling $2.3 million. The payment terms of the lines of credit are generally one year; however, the lines have historically renewed annually. The interest rates, which include bank commissions and other fees, range between 5.5% and 8.0%. There are no material financial covenants associated with these lines of credit.

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 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," "expects," "plans," "anticipates," "believes," "estimates," "projects," "predicts," "intends," "potential" 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 the Company's actual results to differ materially from those in the forward-looking statements include the Company's failure to successfully integrate acquired businesses or technologies, complete planned consolidations of business functions, expand its product offerings, introduce new products or commercialize new technologies, including our new micro liter spectrophotometer and electrophoresis products, unanticipated costs relating to acquisitions, unanticipated costs arising in connection with the Company's planned consolidation of business functions, decreased demand for the Company's products due to changes in its customers' needs, financial position, general economic outlook, or other circumstances, overall economic trends, the timing of our customers' capital equipment purchases and the seasonal nature of purchasing in Europe, our potential misinterpretation of trends of our capital equipment product lines due to the cyclical nature of this market, economic, political and other risks associated with international revenues and operations, additional costs of complying with recent changes in regulatory rules applicable to public companies, our ability to manage our growth, our ability to retain key personnel, competition from our competitors, technological changes resulting in our products becoming obsolete, future changes to the operations or the activities of our Asys Hitech subsidiary that are being consolidated, our ability to meet the financial covenants contained in our credit facility, our ability to protect our intellectual property and operate without infringing on others' intellectual property, potential costs of any lawsuits to protect or enforce our intellectual property, economic and political conditions generally and those affecting pharmaceutical and biotechnology industries, the Company's inability to complete the divestiture of its remaining portion of its Capital Equipment Business segment on attractive terms, the potential loss of business at the Company's Capital Equipment Business segment relating to the Company's decision to divest this business, unanticipated costs or expenses related to the divestiture of the Capital Equipment Business segment, completion of the purchase price allocation for Panlab s.l., impact of any impairment of our goodwill or intangible assets, and our acquisition of Genomic Solutions failing to qualify as a tax-free reorganization for federal tax purposes, the amount of earn-out consideration that the Company receives in connection with the recent disposition of a portion of the Company's Capital Equipment Business segment and factors that may impact the receipt of this consideration, such as the revenues of the businesses disposed of, plus factors described under the heading "Item 1A. Risk Factors" in the Company's Annual Report on Form 10-K, , for the fiscal year ended December 31, 2007, as amended. Our results may also be affected by factors of which we are not currently aware. Also, these forward-looking statements represent our estimates and assumptions only as of the date of this report. 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.

General

From 1997 to 2007, the revenues from our continuing operations grew from $11.5 million to $83.4 million, an annual compounded growth rate of approximately 22.0%. Since the second half of 2005, when we made the decision to divest the Capital Equipment Business segment, we refocused our resources on our core apparatus and instrumentation business, which has been the cornerstone to our success over the last decade.

In March, 2008, we outlined five major initiatives that we expect will have a positive impact on our performance in 2008. These initiatives include:

- the launch of a new major Harvard Apparatus catalog during February 2008;
- the launch of Panlab products into US markets;
- the signing of a new contract with GE Healthcare and the full launch of our new microliter spectrophotometer;
- the launch of new 2-D electrophoresis products through our Hoefer subsidiary; and
- the consolidation of business functions to reduce operating expenses.

During the first quarter of 2008, we made significant progress on these five initiatives. We launched our new major catalog in February, entered into a new distributor contract with GE Healthcare in April, generated healthy sales of our new microliter spectrophotometer, and made significant progress consolidating certain business functions.

Accordingly, we remain committed to our goal of high revenue and profit growth through a combination of organic growth and tuck under acquisitions. While we expect the initiatives discussed above will positively impact our business, the success of these initiatives is subject to a number of factors including the competitiveness of our new products, the strength of our intellectual property underlying these products, the success of our marketing efforts and those of our distributors and the other factors described under the heading “Item 1A. Risk Factors” in our Annual Report on Form 10-K for the fiscal year ended December 31, 2007, as amended.

Generally, management evaluates the financial performance of its operations before the effects of stock compensation expense and before the effects of purchase accounting and amortization of intangible assets related to our acquisitions. Our goal is to develop and sell products that improve life science research and as such, we monitor our operating metrics and when appropriate, effect organizational changes to leverage infrastructure and distribution channels. These changes may be effected as a result of various events, including acquisitions, the worldwide economy, general market conditions and personnel changes.

Financing

During 2003, we entered into a $20.0 million credit facility with Brown Brothers Harriman & Co. On December 1, 2006, we amended the terms of the credit facility. The amended credit facility expires on December 1, 2009. Under the terms of our credit facility, we will be required to obtain consent from our lenders upon the sale of the remaining portion of our Capital Equipment Business segment. If we are unable to obtain this consent, the sale of the remaining portion of our Capital Equipment Business segment will trigger a default under the credit facility whereby our lenders could accelerate all of our outstanding indebtedness and terminate our credit facility.

As of March 31, 2008, we were in compliance with the financial covenants contained in the credit facility involving income, debt coverage and cash flow, as well as minimum working capital requirements. Additionally, the credit facility also contains limitations on our ability to incur additional indebtedness and requires creditor 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. We do not believe that these requirements will be a significant constraint on our operations or on the acquisition portion of our growth strategy. As of March 31, 2008, there was no debt outstanding under the credit facility compared to $5.5 million outstanding as of December 31, 2007. As of March 31, 2008, we were not subject to any borrowing restrictions under the covenants and we had available borrowing capacity under our revolving credit facility of $20.0 million.

Historically, we have funded acquisitions with debt, capital raised by issuing equity and cash flow from operations. In order to continue the acquisition portion of our growth strategy beyond what our current cash balances and cash flow from operations can support, we will need to raise more capital, either by incurring additional debt, issuing equity or a combination or through the sale of our Capital Equipment Business segment.

To the extent we receive some or all of the proceeds in cash from the planned divestiture of our Capital Equipment Business segment, we intend to apply any cash proceeds to the repayment of debt, to continue our tuck-under acquisition strategy within our Apparatus and Instrumentation Business segment or to other general corporate purposes.

Components of Operating Income from Continuing Operations

Revenues. We generate revenues by selling apparatus, instruments, devices and consumables through our catalog, our direct sales force, our distributors and our website.

For products primarily priced under $10,000, every one to three years, we typically distribute a new, comprehensive catalog initially in a series of bulk mailings, first to our existing customers, followed by mailings to targeted markets of potential customers. Over the life of the catalog, distribution will also be made periodically to potential and existing customers through direct mail and trade shows and in response to e-mail and telephone inquiries. From time to time, we also intend to distribute catalog supplements that promote selected areas of our catalog or new products to targeted subsets of our customer base. Future distributions of our comprehensive catalog and our catalog supplements will be determined primarily by the incidence of new product introductions, which cannot be predicted. Our end user customers are research scientists at pharmaceutical and biotechnology companies, universities and government laboratories. Revenue from catalog sales in any period is influenced by the amount of time elapsed since the last mailing of the catalog, the number of catalogs mailed and the number of new items included in the catalog. We launched our latest comprehensive catalog in February 2008, with approximately 900 pages and approximately 60,000 copies printed. Revenues from direct sales to end users, derived through our catalog and the electronic version of our catalog on our website, represented approximately 28% and 31%, respectively, of our revenues for the three months ended March 31, 2008 and for the year ended December 31, 2007.

Products sold under brand names of distributors including GE Healthcare, 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 very 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 distributors in place for acquired businesses. For the three months ended March 31, 2008 and for the year ended December 31, 2007, approximately 56% and 59%, respectively, of our revenues were derived from sales to distributors.

For the three months ended March 31, 2008 and for the year ended December 31, 2007, approximately 84% and 87%, respectively, of our revenues were derived from products we manufacture. The remaining 16% and 13%, respectively, of our revenues for the three months ended March 31, 2008 and for the year ended December 31, 2007, 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. For the three months ended March 31, 2008 and for the year ended December 31, 2007, approximately 64% and 58%, respectively, of our revenues were derived from sales made by our non-U.S. operations. A large portion of our international sales during this period consisted of sales to GE Healthcare, the distributor for our spectrophotometers and plate readers. GE Healthcare distributes these products to customers around the world, including many customers in the United States, from its distribution center in Upsalla, Sweden. As a result, we believe our international sales would have been a lower percentage of our revenues if we had shipped our products directly to our end-users. Changes in the relative proportion of our revenue sources between catalog sales, direct sales, and distribution sales are primarily the result of a different sales proportion of acquired companies.

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 higher cost of product 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 approximately 900 page catalog, supplements and various other specialty catalogs, 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 in our catalog. We may also from time to time expand our direct sales organizations in an effort to increase and/or support sales of our higher priced capital equipment instruments or 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 relations functions. Other costs include professional fees for legal and accounting services, restructuring costs, 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 capital resources used to develop and enhance our products and to support collaboration agreements. 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.

Stock compensation expenses. On January 1, 2006, we adopted Statement of Financial Accounting Standards (SFAS) No. 123 (revised 2004), *Share-Based Payment*, which requires the Company to recognize compensation expense for all share-based payment awards made to employees and directors including employee stock options and employee stock purchases related to the Employee Stock Purchase Plan ("employee stock purchases"). We adopted SFAS No. 123(R) using the modified prospective transition method, which requires the application of the accounting standard as of January 1, 2006, the first day of our fiscal year 2006. Stock-based compensation expense recognized under SFAS No. 123(R) was $0.4 million and $4,000 for the three months ended March 31, 2008 in our continuing operations and discontinued operations, respectively. Stock-based compensation expense recognized under SFAS No. 123(R) was $0.4 million and $14,000 for the three months ended March 31, 2007 in our continuing operations and discontinued operations, respectively. This stock-based compensation expense was related to employee stock options and the employee stock purchase plan 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.

Selected Results of Operations

Three months ended March 31, 2008 compared to three months ended March 31, 2007:

	Three Months Ended March 31,			
	2008	2007	Dollar Change	% Change
	(dollars in thousands, unaudited)			
Revenues	$21,959	$19,115	$2,844	14.9%
Cost of product revenues	11,628	9,694	1,934	20.0%
Gross margin percentage	47.0%	49.3%		
Sales and marketing expenses	2,841	2,470	371	15.0%
General and administrative expenses	3,756	3,403	353	10.4%
Research and development expenses	1,081	844	237	28.1%

Revenues.

Revenues increased $2.9 million, or 14.9%, to $22.0 million for the three months ended March 31, 2008 compared to $19.1 million for the same period in 2007. The increase in revenue is primarily due to revenues from our recently acquired Panlab subsidiary of $2.4 million, an increase in sales at our Biochrom UK subsidiary of $1.9 million, primarily of our new microliter spectrophotometer, and favorable foreign exchange rate impact on sales denominated in foreign currencies of $0.4 million during the first quarter of 2008. This revenue growth was offset by large one-off orders in the first quarter of 2007, which were not repeated in 2008, including a large tender order for our Anthos plate readers from China of approximately $0.9 million.

Cost of product revenues.

Cost of product revenues increased $1.9 million, or 20.0%, to $11.6 million for the three months ended March 31, 2008 from $9.7 million for the three months ended March 31, 2007. The increase in cost of product revenues is primarily due to increases of $1.5 million attributable to our recently acquired Panlab subsidiary, $0.3 million of inventory write-downs associated with our decision to consolidate our Asys subsidiary into our Biochrom UK subsidiary and $0.2 million attributable to changes in foreign exchange rates. Gross profit as a percentage of revenues decreased to 47.0% for the three months ended March 31, 2008 compared with 49.3% for the same period in 2007. The decrease in gross profit as a percentage of revenues was primarily due to sales from our Panlab subsidiary, which sells at lower gross margins than our historical consolidated gross margins, as a result of Panlab's mix of distributed products compared to manufactured products and certain inventory write-downs related to our consolidation plan (see "Restructuring" on the following page). The impact of Panlab and the inventory write-downs on gross margin percentage were each 1.2%.

Sales and marketing expense.

Sales and marketing expenses increased $0.3 million, or 15.0%, to $2.8 million for the three months ended March 31, 2008 compared to $2.5 million for the three months ended March 31, 2007. This increase was primarily due to expenses from our recently acquired Panlab subsidiary of $0.2 million and, to a lesser extent, to increases in salary related expenses of $0.1 million and changes in foreign exchange rates of $0.1 million.

General and administrative expense.

General and administrative expenses increased $0.4 million, or 10.4%, to $3.8 million for the three months ended March 31, 2008 compared to $3.4 million for the three months ended March 31, 2007. General and administrative expenses increased $0.2 million due to our recent acquisition of Panlab and $0.1 million due to our implementation of our shareholder rights plan.

Research and development expense.

Research and development expenses were $1.1 million, an increase of $0.3 million for the three months ended March 31, 2008 compared to $0.8 million for the three months ended March 31, 2007. The increase in research and development expenses was primarily due to costs associated with recently developed products and our recent acquisition of Panlab.

Amortization of intangible assets.

Amortization of intangibles was $0.5 million and $0.4 million for the three months ended March 31, 2008 and 2007, respectively.

Other income, net.

Other income, net, was $0.2 million and $13,000 for the three months ended March 31, 2008 and 2007, respectively. Net interest expense was $52,000 for the three months ended March 31, 2008 compared to net interest expense of $5,000 for the three months ended March 31, 2007. The increase in net interest expense was primarily due to higher average long-term debt balances in the first quarter of 2008 compared to the first quarter of 2007. Other income, net, also included foreign exchange gains of $0.2 million and $24,000 for the three months ended March 31, 2008 and 2007, respectively. These exchange gains were primarily the result of currency fluctuations on intercompany transactions between our subsidiaries.

Income taxes.

Income tax expense from continuing operations was approximately $0.5 million for the three months ended March 31, 2008 and 2007, respectively. The effective income tax rate for continuing operations was 31.0% for the three months ended March 31, 2008, compared with 23.4% for the same period of 2007. The difference between our effective tax rate and the US statutory tax rate is principally attributable to foreign tax rate differential and changes in our valuation allowance.

Restructuring

During the quarter ended March 31, 2008, the management of Harvard Bioscience committed to an ongoing initiative to consolidate business functions to reduce operating expenses. Our recent actions have been related to the separation of our electrophoresis product lines from our spectrophotometer and plate reader product lines. As part of these initiatives we have made changes in management, completed the consolidation of the Hoefer electrophoresis administrative and marketing operations from San Francisco, California to the headquarters of the Harvard Apparatus subsidiary in Holliston, Massachusetts and initiated the consolidation of the activities of our Asys Hitech subsidiary in Austria to the Company's Biochrom subsidiary's facility located in Cambridge UK. The combined costs of these activities, the majority of which are expected to be recorded in the first half of 2008, are expected to be between approximately $1.6 million and $1.9 million.

During the quarter ended March 31, 2008, we recorded charges relating to the restructuring of approximately $0.8 million. These charges were comprised of $0.4 million in severance payments, $0.3 million in inventory impairment charges related to the discontinuance of certain product lines (included in cost of product revenues) and $0.2 million in various other costs.

Discontinued Operations

During the quarter ended September 30, 2005, the Company announced plans to divest its Capital Equipment Business segment. The decision to divest this business segment was based on the fact that market conditions for the Capital Equipment Business had been such that this business did not meet the Company's expectations and the decision to focus Company resources on the Apparatus and Instrumentation Business segment. As a result, we began reporting the Capital Equipment Business segment as a discontinued operation in the third quarter of 2005.

In November 2007, the Company completed the sale of the assets of its Genomic Solutions Division and the stock of its Belgian subsidiary, MAIA Scientific, both of which were part of its Capital Equipment Business Segment, to Digilab, Inc. The purchase price paid by Digilab under the terms of the Asset Purchase Agreement consisted of $1,000,000 in cash plus additional consideration in the form of an earn-out based on 20% of the revenue generated by the acquired business as it is conducted by Digilab over a three-year period post-transaction. Any earn-out amounts will be evidenced by interest bearing promissory notes due on November 30, 2012. During the fourth quarter of 2007, we recorded a loss on sale of $3.1 million. There was no value ascribed to the contingent consideration from the earn-out agreement, as realization is uncertain.

The loss from discontinued operations, net of tax, was approximately $0.5 million for the three months ended March 31, 2008 compared to a loss of $1.2 million for the same period in 2007. For the three months ended March 31, 2008, the loss from discontinued operations, net of tax, includes the operating results of the Company's Union Biometrica US and German subsidiaries. For the three months ended March 31, 2007, the loss from discontinued operations, net of tax, included the operating results of the Company's former Genomic Solutions Division, its former MAIA Scientific subsidiary, and its current Union Biometrica US and German subsidiaries.

Liquidity and Capital Resources

Historically, we have financed our business through cash provided by operating activities, the issuance of common stock and preferred stock, and bank borrowings. Our liquidity requirements have arisen primarily from investing activities, including funding of acquisitions and capital expenditures.

In our consolidated statements of cash flows, we have elected to combine the cash flows from both continuing and discontinued operations within each category, as allowed by SFAS No. 95, *Statement of Cash Flows*. Unless specifically noted otherwise, our discussion of our cash flows below refers to combined cash flows from both continuing and discontinued operations.

We ended the first quarter of 2008 with cash and cash equivalents of $13.1 million compared to cash and cash equivalents of $18.2 million at December 31, 2007. As of March 31, 2008, $12.5 million was held by our continuing operations and $0.6 million was held by our discontinued operations. As of March 31, 2008, we had no debt outstanding on our revolving credit facility compared to $5.5 million at December 31, 2007. Additionally, our Panlab subsidiary had $2.3 million in debt remaining at both March 31, 2008 and December 31, 2007.

Overview of Cash Flows
(Cash flow information includes cash flows for both continuing and discontinued operations)
(in thousands, unaudited)

	Three Months Ended March 31,	
	2008	2007
Cash flows from operations:		
Net income	$ 687	$ 496
Changes in assets and liabilities	(2,052)	82
Other adjustments to operating cash flows	2,077	1,275
Net cash provided by operating activities	712	1,853
Investing activities:		
Other investing activities	(688)	(541)
Net cash used in investing activities	(688)	(541)
Financing activities:		
Other financing activities	(5,391)	(1,476)
Net cash used in financing activities	(5,391)	(1,476)
Effect of exchange rate changes on cash	216	(16)
Decrease in cash and cash equivalents	$(5,151)	$ (180)

Our operating activities generated cash of $0.7 million for the three months ended March 31, 2008 compared to $1.9 million for the three months ended March 31, 2007. The decrease in cash flows from operations from 2007 compared to 2008 was primarily the result of a build up of inventory to meet increased demand for our products and various new product introductions of approximately $0.6 million, the net change of $1.1 million related to tax payments made in 2008 compared with net tax refunds in 2007 and various prepayments of $0.4 million, partially offset by a decrease in trade payables of $1.1 million.

Our investing activities used cash of $0.7 million in the three months ended March 31, 2008 compared to $0.5 million for the same period in 2007. The caption “Other investing activities” includes purchases of property, plant and equipment and expenditures for our recently printed 900-page Harvard Apparatus catalog. We spent $0.3 million in the three months ended March 31, 2008 on capital expenditures compared to $0.5 million for the three months ended March 31, 2007. During the next twelve months, we expect to spend approximately $2.0 million on capital expenditures.

Our financing activities have historically consisted of borrowings and repayments under a revolving credit facility with Brown Brothers Harriman & Co., long-term debt and the issuance of preferred stock and common stock, including the common stock issued in our initial public offering. As of March 31, 2008, we had no debt outstanding on our revolving credit facility compared to $5.5 million at December 31, 2007.

During 2003, we entered into a $20.0 million credit facility with Brown Brothers Harriman & Co. On December 1, 2006, we amended the terms of the credit facility. This amendment changed the terms of our current $20.0 million credit facility, by allowing borrowing of up to $10.0 million in British Pound Sterling or Eurocurrency and extending the maturity date from January 1, 2007 to December 1, 2009. The amended credit facility bears interest at either (1) the base rate announced by BBH from time to time, (2) the London Interbank Offered Rate (“LIBOR”) or (3) the Eurocurrency base rate, plus, in the case of LIBOR or the Eurocurrency base rate, a margin of 2.5% or 2.75% depending on our debt service leverage ratio. As of March 31, 2008, there was no debt outstanding under the credit facility. As of March 31, 2008, we were in compliance with the financial covenants contained in the credit facility involving income, debt coverage and cash flow, as well as minimum working capital requirements. Additionally, the credit facility also contains limitations on our ability to incur additional indebtedness and requires creditor 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. We do not believe that these requirements will be a significant constraint on our operations or on the acquisition portion of our growth strategy. As of March 31, 2008, there was no debt outstanding under the credit facility compared to $5.5 million outstanding as of December 31, 2007. As of March 31, 2008, we were not subject to any borrowing restrictions under the covenants and we had available borrowing capacity under our revolving credit facility of $20.0 million.

Under the terms of our credit facility, we will be required to obtain consent from our lenders upon the sale of the remaining portion of our Capital Equipment Business segment. If we are unable to obtain this consent, the sale of the remaining portion of our Capital Equipment Business segment will trigger a default under the credit facility whereby our lenders could accelerate all of our outstanding indebtedness and terminate our credit facility.

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 and capital expenditures for 12 months and beyond. However, we may use substantial amounts of capital to accelerate product development or expand our sales and marketing activities. We may need to raise additional capital in order to make significant acquisitions. 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. In addition, we believe that the absence of cash inflows from our discontinued businesses will not have an impact on our ability to support our current operations or operating plans.

Impact of Foreign Currencies

We sell our products in many countries and a substantial portion of our revenues, costs and expenses are denominated in foreign currencies, especially the United Kingdom pound sterling and the Euro. During the three months ended March 31, 2008 and 2007, the U.S. dollar weakened against these currencies resulting in increased consolidated revenue and earnings growth. Changes in foreign currency exchange rates resulted in an increase in revenues of $0.4 million and expenses of $0.3 million (net $0.1 million) during the three months ended March 31, 2008.

Our exchange gains and losses were primarily the result of currency fluctuations on net payables and receivables among our subsidiaries. The gain associated with the translation of foreign equity into U.S. dollars was approximately $1.1 million and $0.2 million during the three months ended March 31, 2008 and 2007, respectively. In addition, currency fluctuations resulted in approximately $0.2 million and $24,000 in foreign currency gains during the three months ended March 31, 2008 and 2007, respectively. Under the current terms of our credit facility, we have the ability to borrow in US dollars, Euros, or British pounds sterling. As of March 31, 2008, there was no debt outstanding under the credit facility. In addition, as of March 31, 2008, our recently acquired Panlab subsidiary held notes payable of $2.3 million denominated in Euros. These Eurocurrency borrowings are sensitive to changes in currency exchange rates.

Historically, we have not hedged our foreign currency position. Currently, we attempt to manage foreign currency risk through the matching of assets and liabilities. However, as our sales expand internationally, we will continue to evaluate our currency risks and we may enter into foreign exchange contracts from time to time to mitigate foreign currency exposure.

Critical Accounting Policies

We believe that our critical accounting policies are as follows:

- revenue recognition;
- accounting for income taxes;
- inventory;
- valuation of identifiable intangible assets and in-process research and development in business combinations;
- valuation of long-lived and intangible assets and goodwill; and
- stock-based compensation.

Revenue recognition. We recognize revenue of products when persuasive evidence of a sales arrangement exists, the price to the buyer is fixed or determinable, delivery has occurred, and collectibility of the sales price is reasonably assured. Sales of some of our products include provisions to provide additional services such as installation and training. We evaluate all sales with multiple deliverables, including our collaboration agreements, to determine if more than one unit of accounting exists, in accordance with Emerging Issues Task Force (EITF) Issue No. 00-21, *Revenue Arrangements with Multiple Deliverables.* When we determine that there is more than one unit of accounting, and there is objective and reliable evidence of fair value for all units of accounting in an arrangement, the arrangement consideration is allocated to the separate units of accounting based on their relative fair values. In situations where there is objective and reliable evidence of the fair value(s) of the undelivered item(s) in an arrangement but no such evidence for the delivered item(s), we apply the residual method to allocate fair value. Under the residual method, the amount of consideration allocated to the delivered item(s) equals the total arrangement consideration less the aggregate fair value of the undelivered item(s). Revenue for each unit of accounting is recorded once all applicable revenue recognition criteria have been met. Service agreements on our equipment are typically sold separately from the sale of the equipment. Revenues on these service agreements are recognized ratably over the life of the agreement, typically one year, in accordance FASB Technical Bulletin (FTB) 90-1, *Accounting for Separately Priced Extended Warranty and Product Maintenance Contracts***.**

We account for shipping and handling fees and costs in accordance with EITF Issue No. 00-10, *Accounting for Shipping and Handling Fees and Costs*, which requires all amounts charged to customers for shipping and handling to be classified as revenues. Our costs incurred related to shipping and handling are classified as cost of product revenues. Warranties and product returns are estimated and accrued for at the time sales are recorded. We have no obligations to customers after the date products are shipped or installed, if applicable, other than pursuant to warranty obligations and service or maintenance contracts. We provide for the estimated amount of future returns upon shipment of products or installation, if applicable, based on historical experience. Historically, product returns and warranty costs have not been significant, and they have been within our expectations and the provisions established, however, there is no assurance that we will continue to experience the same return rates and warranty repair costs that we have in the past. Any significant increase in product return rates or a significant increase in the cost to repair our products could have a material adverse impact on our operating results for the period or periods in which such returns or increased costs materialize.

We make estimates evaluating our allowance for doubtful accounts. On an ongoing basis, we monitor collections and payments from our customers and maintain a provision for estimated credit losses based upon our historical experience and any specific customer collection issues that we have identified. Historically, such credit losses have not been significant, and they have been within our expectations and the provisions established, however, there is no assurance that we will continue to experience the same credit loss rates that we have in the past. A significant change in the liquidity or financial position of our customers could have a material adverse impact on the collectibility of our accounts receivable and our future operating results.

Accounting for income taxes. We determine our annual income tax provision in each of the jurisdictions in which we operate. This involves determining our current and deferred income tax expense as well as accounting for differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases. The future tax consequences attributable to these differences result in deferred tax assets and liabilities, which are included in our consolidated balance sheets. We assess the recoverability of the deferred tax assets by considering whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. To the extent we believe that recovery does not meet this “more likely than not” standard as required in SFAS No. 109, *Accounting for Income Taxes*, we must establish a valuation allowance. If a valuation allowance is established or increased in a period, generally we allocate the related income tax expense to income from continuing operations in the consolidated statement of operations.

Management’s judgment and estimates are required in determining our income tax provision, deferred tax assets and liabilities and any valuation allowance recorded against deferred tax assets. We have established a valuation allowance attributable to certain deferred tax assets as of December 31, 2007 that do not meet the “more likely than not” standard of realization based on our ability to generate sufficient future taxable income in the carryback and carryforward periods based on the criteria set forth in SFAS No. 109. We review the recoverability of deferred tax assets during each reporting period by reviewing estimates of future taxable income, future reversals of existing taxable temporary differences, and tax planning strategies that would, if necessary, be implemented to realize the benefit of a deferred tax asset before expiration.

We assess tax positions taken on tax returns, including recognition of potential interest and penalties, in accordance with the recognition thresholds and measurement attributes outlined in FASB Interpretation (FIN) No. 48 , *Accounting for Uncertainty in Income Taxes—an interpretation of FAS 109*. Interest and penalties recognized, if any, would be classified as a component of income tax expense.

Inventory. We value our inventory at the lower of the actual cost to purchase (first-in, first-out method) and/or manufacture the inventory or the current estimated market value of the inventory. We regularly review inventory quantities on hand and record a provision to write down excess and obsolete inventory to its estimated net realizable value if less than cost, based primarily on its estimated forecast of product demand. Since forecasted product demand quite often is a function of previous and current demand, a significant decrease in demand could result in an increase in the charges for excess inventory quantities on hand. In addition, our industry is subject to technological change and new product development, and technological advances could result in an increase in the amount of obsolete inventory quantities on hand. Therefore, any significant unanticipated changes in demand or technological developments could have a significant adverse impact on the value of our inventory and our reported operating results.

Valuation of identifiable intangible assets acquired in business combinations. Identifiable intangible assets consist primarily of trademarks and acquired technology. Such intangible assets arise from the allocation of the purchase price of businesses acquired to identifiable intangible assets based on their respective fair market values. Amounts assigned to such identifiable intangible assets are primarily based on independent appraisals using established valuation techniques and management estimates. The value assigned to trademarks was determined by estimating the royalty income that would be negotiated at an arm's-length transaction if the asset were licensed from a third party. A discount factor, ranging from 20% to 40%, which represents both the business and financial risks of such investments, was used to determine the present value of the future streams of income attributable to trademarks. The specific approach used to value trademarks was the Relief from Royalty ("RFR") method. The RFR method assumes that an intangible asset is valuable because the owner of the asset avoids the cost of licensing that asset. The royalty savings are then calculated by multiplying a royalty rate times a determined royalty base, i.e., the applicable level of future revenues. In determining an appropriate royalty rate, a sample of guideline, arm's length royalty and licensing agreements are analyzed. In determining the royalty base, forecasts are used based on management's judgments of expected conditions and expected courses of actions. The value assigned to acquired technology was determined by using a discounted cash flow model, which measures what a buyer would be willing to pay currently for the future cash stream potential of existing technology. The specific method used to value the technologies involved estimating future cash flows to be derived as a direct result of those technologies, and discounting those future streams to their present value. The discount factors used, ranging from 20% to 40%, reflect the business and financial risks of an investment in technologies. Forecasts of future cash flows are based on management's judgment of expected conditions and expected courses of action.

Valuation of in-process research and development acquired in business combinations. Purchase price allocation to in-process research and development represents the estimated fair value of research and development projects that are reasonably believed to have no alternative future use. The value assigned to in-process research and development was determined by independent appraisals by estimating the cost to develop the purchased in-process research and development into commercially feasible products, estimating the percentage of completion at the acquisition date, estimating the resulting net risk-adjusted cash flows from the projects and discounting the net cash flows to their present value. The discount rates used in determining the in-process research and development expenditures reflects a higher risk of investment because of the higher level of uncertainty due in part to the nature of our business and the industry to constantly develop new technology for future product releases and ranged from 25% to 43.5%. The forecasts used by us in valuing in-process research and development were based on assumptions we believed at the time to be reasonable, but which are inherently uncertain and unpredictable. Given the uncertainties of the development process, no assurance can be given that deviations from our estimates will not occur and no assurance can be given that the in-process research and development projects identified will ever reach either technological or commercial success.

Valuation of long-lived and intangible assets and goodwill. In accordance with the provisions of SFAS No. 144, *Accounting for the Impairment or Disposal of Long-Lived Assets*, we assess the value of identifiable intangibles with finite lives and long-lived assets for impairment whenever events or changes in circumstances indicate that the carrying value may not be recoverable. Factors we consider important which could trigger an impairment review include the following: significant underperformance relative to expected historical or projected future operating results; significant changes in the manner of our use of the acquired assets or the strategy for our overall business; significant negative industry or economic trends; significant changes in who our competitors are and what they do; significant changes in our relationship with GE Healthcare; significant decline in our stock price for a sustained period; and our market capitalization relative to net book value.

If we were to determine that the value of long-lived assets and identifiable intangible assets with finite lives was not recoverable based on the existence of one or more of the aforementioned factors, then the recoverability of those assets to be held and used would be measured by a comparison of the carrying amount of those assets to undiscounted future net cash flows before tax effects expected to be generated by those assets. If such assets are considered to be impaired, the impairment to be recognized would be measured by the amount by which the carrying value of the assets exceeds the fair value of the assets.

A long-lived asset classified as “held for sale” is initially measured at the lower of carrying amount or fair value less costs to sell. In the period the “held for sale” criteria are met, we recognize an impairment charge for any initial adjustment of the long-lived assets. During each reporting period after the initial measurement, gains or losses resulting from fluctuations in the fair value less costs to sell are recognized. Gains and losses not previously recognized resulting from the sale of a long-lived asset are recognized on the date of sale. Assets to be disposed of are separately presented in the consolidated balance sheet and long-lived assets are no longer depreciated or amortized. The assets and liabilities of a disposal group, which are classified as held for sale, are presented separately in the appropriate asset and liability sections of the balance sheet. Operating results for all periods presented are presented as discontinued operations, net of tax. In accordance with Emerging Issues Task Force Issue No. 87-24, *Allocation of Interest to Discontinued Operations*, we have elected not to allocate interest of our consolidated debt to discontinued operations.

In June 2001, SFAS No. 142, *Goodwill and Other Intangible Assets* was issued. SFAS No. 142 addresses financial accounting and reporting for acquired goodwill and other intangible assets. Among other things, SFAS No. 142 requires that goodwill and intangible assets with indefinite useful lives no longer be amortized, but rather tested annually for impairment or more frequently if events or circumstances indicate that there may be impairment. The goodwill impairment test consists of a comparison of the fair value of our reporting units with their carrying amount. If the carrying amount exceeds its fair value, we are required to perform the second step of the impairment test, as this is an indication that goodwill may be impaired. The impairment loss is measured by comparing the implied fair value of the reporting unit’s goodwill with its carrying amount. If the carrying amount exceeds the implied fair value, an impairment loss shall be recognized in an amount equal to the excess. After an impairment loss is recognized, the adjusted carrying amount of the intangible asset shall be its new accounting basis. Subsequent reversal of a previously recognized impairment loss is prohibited. For unamortizable intangible assets if the carrying amount exceeds the fair value of the asset, we would write-down the unamortizable intangible asset to fair value.

During the second quarter of 2005, the asset groups that comprise our Capital Equipment Business segment experienced a significant decrease in revenues and operating profit margins. We believed the decrease in revenues was caused by a general market decrease in demand for capital equipment, excess capacity of certain genomics equipment in the market place, and new applications for certain products had not developed as previously anticipated. These factors led us to revise our expectations of future revenues and operating profit margins for the Capital Equipment Business segment. As a result, with the assistance of third party independent appraisers, we re-evaluated the long-lived assets associated with these asset groups in accordance with SFAS No. 144 and determined that certain intangible assets within these asset groups were impaired as of June 30, 2005. We used an income approach to determine the fair values of the long-lived assets tested for impairment and recorded abandonment and impairment charges within the Capital Equipment Business segment totaling approximately $8.1 million for long-lived assets during the second quarter of 2005. These abandonment and impairment charges have been classified within discontinued operations for the year ended December 31, 2005. Also, as a result of the factors described above, in accordance with SFAS No. 142, we, with the assistance of third-party independent appraisers, re-evaluated the goodwill associated with the Genomic Solutions and Union Biometrica reporting units for impairment as of June 30, 2005. As a result of this goodwill impairment testing, we recorded impairment charges within the Capital Equipment Business segment of approximately $9.3 million for goodwill during the second quarter of 2005. We used a combination of an income approach and a market approach to determine the fair value of our Genomic Solutions and Union Biometrica reporting units. These impairment charges have been classified within discontinued operations for the year ended December 31, 2005.

During the fourth quarter of 2005, certain product lines in the Capital Equipment Business segment did not meet our revenue forecasts and expectations. We believe that the further decline in revenues was due to the relative high price and nature of the products sold by Capital Equipment Business segment which customers, particularly distributors, may not be promoting and purchasing due to the uncertain future of the business. This led to a further reduction in our expectation of future revenues in the Capital Equipment Business segment. As a result, we re-evaluated the goodwill included in this segment in accordance with SFAS No. 142, as well as the fair value of the disposal group in accordance with SFAS No. 144. As a result, an additional goodwill impairment charge of approximately $7.9 million and a write-down of long-lived assets of approximately $3.4 million were recorded during the fourth quarter of 2005. We used a combination of income and market approaches to determine the fair value of the disposal group.

During the year ended December 31, 2006, we utilized a market approach and re-evaluated the fair value less costs to sell of the assets that comprise the Capital Equipment Business segment. Based on this evaluation, we recorded additional asset impairment charges of approximately $3.9 million.

During the year ended December 31, 2007, we utilized a market approach and re-evaluated the fair value less costs to sell of the assets that comprise the Capital Equipment Business segment. Based on management’s evaluation, additional asset impairment charges of approximately $2.9 million were recorded during 2007.

In November 2007, we completed the sale of the assets of our Genomic Solutions Division and the stock of our Belgian subsidiary, MAIA Scientific, both of which were part of our Capital Equipment Business Segment, to Digilab, Inc. The purchase price paid by Digilab under the terms of the Asset Purchase Agreement consisted of $1,000,000 in cash plus additional consideration in the form of an earn-out based on 20% of the revenue generated by the acquired business as it is conducted by Digilab over a three-year period post-transaction. Any earn-out amounts will be evidenced by interest bearing promissory notes due on November 30, 2012. During the fourth quarter, we recorded a loss on sale of $3.1 million. There was no value ascribed to the contingent consideration from the earn-out agreement, as realization is uncertain. The COPAS flow cytometry product line (held by our Union Biometrica US and German subsidiaries, both of which are still included in discontinued operations), was not included in this sale, and we continue to pursue a sale of this product line separately.

Stock-based compensation. We account for share-based payment awards in accordance with the provisions of SFAS No. 123(R), which was adopted as of January 1, 2006 using the modified prospective transition method. In accordance with the modified prospective transition method, our consolidated financial statements for periods prior to January 1, 2006 have not been restated to reflect, and do not include, the impact of SFAS No. 123(R).

SFAS No. 123(R) requires companies to estimate the fair value of stock-based payment awards on the date of grant using an option-pricing model. The value of the portion of the award that is ultimately expected to vest is recognized as expense over the requisite service periods in our consolidated statement of operations. Prior to the adoption of SFAS No. 123(R), we accounted for stock-based awards to employees and directors using the intrinsic value method in accordance with Accounting Principles Board (APB) Opinion No. 25, *Accounting for Stock Issued to Employees*, as allowed under SFAS No. 123, *Accounting for Stock-Based Compensation*. Under the intrinsic value method, no stock-based compensation expense was recognized in our consolidated statement of operations when the exercise price of our stock options granted to employees and directors equaled or exceeded the fair market value of the underlying stock at the date of grant.

Stock-based compensation expense recognized under SFAS No. 123(R) for the three months ended March 31, 2008 and 2007 was $0.4 million and $0.5 million, respectively, which consisted of stock-based compensation expense related to employee stock options and the employee stock purchase plan. There was no stock-based compensation expense related to employee stock options or the employee stock purchase plan during the year ended December 31, 2005 because we had not adopted the recognition provisions under SFAS No. 123 and there was no such expense under APB Opinion No. 25.

Stock-based compensation expense recognized is based on the value of the portion of stock-based payment awards that is ultimately expected to vest. Stock-based compensation expense recognized includes compensation expense for stock-based payment awards granted prior to, but not yet vested as of January 1, 2006, based on the grant date fair value estimated in accordance with the pro forma provisions of SFAS No. 123, and compensation expense for the stock-based payment awards granted subsequent to December 31, 2005 based on the grant date fair value estimated in accordance with the provisions of SFAS No. 123(R). Stock-based compensation expense has been reduced for estimated forfeitures. SFAS No. 123(R) requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates.

Upon adoption of SFAS No. 123(R), we elected to retain its method of valuation for stock-based payment awards granted beginning in 2006 using the Black-Scholes option-pricing model (“Black-Scholes model”) which was also previously used for our pro forma information required under SFAS No. 123. Our determination of fair value of stock-based payment awards on the date of grant using an option-pricing model is affected by our stock price as well as assumptions regarding a number of highly complex and subjective variables. These variables include, but are not limited to our expected stock price volatility over the term of the awards and actual and projected employee stock option exercise behaviors.

For awards granted prior to January 1, 2006, we use the accelerated expense recognition method in FIN No. 28, *Accounting for Stock Appreciation Rights and Other Variable Stock Option or Award Plans*. We record expense on a straight-line basis over the requisite service period for all awards granted since the adoption of SFAS No. 123(R) on January 1, 2006.

Recent Accounting Pronouncements

In September 2006, the Financial Accounting Standards Board (FASB) issued SFAS No. 157, *Fair Value Measurements*. This statement defines fair value, establishes a framework for measuring fair value in generally accepted accounting principles, and expands disclosures about fair value. This statement is effective for financial statements issued for fiscal years and interim periods within those fiscal years, beginning after November 15, 2007. The adoption of SFAS No. 157 did not have a material impact on the Company's consolidated results of operations or financial position.

In February 2008, the FASB issued FASB Staff Position ("FSP") FAS 157-2, *Effective Date of FASB Statement No. 157*, which delays the effective date of SFAS No. 157 for nonfinancial assets and nonfinancial liabilities that are not remeasured at fair value on a recurring basis (at least annually) until fiscal years beginning after November 15, 2008, and interim periods within those fiscal years. The Company is in the process of evaluating the impact the adoption of FSP 157-2 will have its consolidated financial position and results of operations.

In February 2007, the FASB issued SFAS No. 159, *The Fair Value Option for Financial Assets and Liabilities Including an Amendment of FASB Statement No. 115.* SFAS No. 159 permits reporting entities to choose to measure eligible financial assets or liabilities, which include marketable securities available-for-sale and equity method investments, at fair value at specified election dates, or according to a preexisting policy for specific types of eligible items. Unrealized gains and losses for which the fair value option has been elected are reported in earnings. SFAS No. 159 is effective for fiscal years beginning after November 15, 2007. Early adoption is permitted as of the beginning of a fiscal year that begins on or before November 15, 2007. The adoption of SFAS No. 159 did not have a material impact on the Company's consolidated results of operations or financial position.

In December 2007, the FASB issued SFAS No. 141 (revised 2007), *Business Combinations*. SFAS No. 141(R) retains the fundamental requirements of the original pronouncement requiring that the purchase method be used for all business combinations. SFAS 141(R) defines the acquirer as the entity that obtains control of one or more businesses in the business combination, establishes the acquisition date as the date that the acquirer achieves control and requires the acquirer to recognize the assets acquired, liabilities assumed and any noncontrolling interest at their fair values as of the acquisition date. SFAS No. 141(R) also requires that acquisition-related costs be recognized separately from the acquisition. This Statement applies prospectively to business combinations for which the acquisition date is on or after the beginning of the first annual reporting period beginning on or after December 15, 2008 and may not be applied before that date. The Company is in the process of evaluating the impact the adoption of SFAS No. 141(R) will have its consolidated financial position and results of operations.

In December 2007, the FASB issued SFAS No. 160, *Noncontrolling Interests in Consolidated Financial Statements, An Amendment of ARB No. 51.* SFAS No. 160 amends Accounting Research Bulletin ("ARB") 51 to establish accounting and reporting standards for the noncontrolling interest in a subsidiary and for the deconsolidation of a subsidiary. It also amends certain of ARB 51's consolidation procedures for consistency with the requirements of FASB Statement No. 141(R). This statement is effective for fiscal years, and interim periods within those fiscal years, beginning on or after December 15, 2008. The statement shall be applied prospectively as of the beginning of the fiscal year in which the statement is initially adopted. The Company is currently evaluating SFAS 160 and the impact that it may have on results of operations or financial position.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

We manufacture and test the majority of products in research centers in the United States, the United Kingdom, Germany, Spain and Austria. We sell our products globally through our direct catalog sales, 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. Historically, we have not hedged our foreign currency position. Currently, we attempt to manage foreign currency risk through the matching of assets and liabilities. However, as our sales expand internationally, we plan to evaluate currency risks and we may enter into foreign exchange contracts from time to time to mitigate foreign currency exposure.

We are exposed to market risk from changes in interest rates primarily through our financing activities. As of March 31, 2008, we had no debt outstanding under our revolving credit facility.

Under the current terms of our credit facility, we have the ability to borrow in US dollars, Euros, or British pounds sterling. On March 31, 2008, we had no borrowings on our credit facility. As of March 31, 2008, our recently acquired Panlab subsidiary held notes payable of $2.3 million denominated in Euros. These Eurocurrency borrowings are sensitive to changes in currency exchange rates. A 10% appreciation in quarter-ended March 31, 2008 currency exchange rates related to these Eurocurrency borrowings would have resulted in an increase in the foreign exchange loss of $0.5 million relating to our credit facility borrowings and an increase in the cumulative translation adjustments on our balance sheet of $0.2 million relating to the notes held by our Panlab subsidiary.

Item 4. Controls and Procedures.

As required by Rules 13a-15 and 15d-15 under the Securities Exchange Act of 1934, we have evaluated, with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, the effectiveness of our disclosure controls and procedures as of the end of the period covered by this report. 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 report, 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 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 quarter ended March 31, 2008 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1A. Risk Factors

There have been no material changes in the risk factors described in "Item 1A—Risk Factors" of our Annual Report on Form 10-K for the year ended December 31, 2007, as amended, with the exception of the risk factor titled "*If GE Healthcare (formerly Amersham Biosciences) terminates its distribution agreements with us, fails to renew them on favorable terms or fails to perform its obligations under the distribution agreements, it could impair the marketing and distribution efforts for some of our products and result in lost revenues.*"

We note that on April 10, 2008, Biochrom Limited ("Biochrom"), a wholly owned subsidiary of Harvard Bioscience, Inc., and General Electric Company, acting through its GE Healthcare Bio-Sciences business ("GE Healthcare"), entered into a distribution agreement. Under the terms of the agreement, GE Healthcare will serve as the exclusive, worldwide (except Canada) distributor, marketer and seller of a significant portion of the spectrophotometer and DNA/RNA calculator product lines sold by Biochrom, including the recently launched microliter spectrophotomer to which GE Healthcare has exclusive access to on a worldwide basis including Canada.

The term of the agreement expires December 31, 2012, may be extended by GE Healthcare for additional one-year periods and may be terminated by either party upon one year advance written notice after March 27, 2009. Additionally, upon breach of certain terms of the agreement by either party, the agreement may be terminated with a 60-day notice period.

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Item 6. Exhibits

Exhibit Index	
10.1	Harvard Bioscience, Inc. 2008 Corporate Bonus Plan., incorporated by reference to Form 8-K dated April 8, 2008 and filed on April 14, 2008.
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.
32.2*	Certification of Chief Executive 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.

\+ 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.

SIGNATURES

Pursuant to the requirements of Section 13 and 15(d) 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.

HARVARD BIOSCIENCE, INC.

By: /s/ CHANE GRAZIANO
Chane Graziano
Chief Executive Officer

By: /s/ BRYCE CHICOYNE
Bryce Chicoyne
Chief Financial Officer

Date: May 7, 2008

EXHIBIT 31.1

Certification

I, Bryce Chicoyne, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Harvard Bioscience, Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the consolidated financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e), and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 7, 2008

/s/ Bryce Chicoyne

Bryce Chicoyne
Chief Financial Officer

EXHIBIT 31.2

Certification

I, Chane Graziano, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Harvard Bioscience, Inc.;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the consolidated financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e), and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 7, 2008

/s/ Chane Graziano

Chane Graziano
Chief Executive Officer

EXHIBIT 32.1

CERTIFICATION OF PERIODIC FINANCIAL REPORT
PURSUANT TO 18 U.S.C. SECTION 1350

The undersigned officer of Harvard Bioscience, Inc. (the "Company") hereby certifies to his knowledge that the Company's quarterly report on Form 10-Q for the quarterly period ended March 31, 2008 to which this certification is being furnished as an exhibit (the "Report"), as filed with the Securities and Exchange Commission on the date hereof, fully complies with the requirements of Section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and that the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. This certification is provided solely pursuant to 18 U.S.C. Section 1350 and Item 601(b)(32) of Regulation S-K ("Item 601(b)(32)") promulgated under the Securities Act of 1933, as amended (the "Securities Act"), and the Exchange Act. In accordance with clause (ii) of Item 601(b)(32), this certification (A) shall not be deemed "filed" for purposes of Section 18 of the Exchange Act, or otherwise subject to the liability of that section, and (B) shall not be deemed to be incorporated by reference into any filing under the Securities Act or the Exchange Act, except to the extent that the Company specifically incorporates it by reference.

Date: May 7, 2008

/s/ Bryce Chicoyne

Name: Bryce Chicoyne
Title: Chief Financial Officer

EXHIBIT 32.2

CERTIFICATION OF PERIODIC FINANCIAL REPORT
PURSUANT TO 18 U.S.C. SECTION 1350

The undersigned officer of Harvard Bioscience, Inc. (the "Company") hereby certifies to his knowledge that the Company's quarterly report on Form 10-Q for the quarterly period ended March 31, 2008 to which this certification is being furnished as an exhibit (the "Report"), as filed with the Securities and Exchange Commission on the date hereof, fully complies with the requirements of Section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and that the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company. This certification is provided solely pursuant to 18 U.S.C. Section 1350 and Item 601(b)(32) of Regulation S-K ("Item 601(b)(32)") promulgated under the Securities Act of 1933, as amended (the "Securities Act"), and the Exchange Act. In accordance with clause (ii) of Item 601(b)(32), this certification (A) shall not be deemed "filed" for purposes of Section 18 of the Exchange Act, or otherwise subject to the liability of that section, and (B) shall not be deemed to be incorporated by reference into any filing under the Securities Act or the Exchange Act, except to the extent that the Company specifically incorporates it by reference.

Date: May 7, 2008

/s/ Chane Graziano

Name: Chane Graziano
Title: Chief Executive Officer