

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549**

**FORM 10-Q/A
(Amendment No. 1 to Form 10-Q)**

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

For the quarterly period ended March 31, 2004

or

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

For the transition period from _____ to _____

Commission file number 000-31923

HARVARD BIOSCIENCE, INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware
(State or Other Jurisdiction of
Incorporation or Organization)

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

04-3306140
(IRS Employer Identification No.)

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

01746
(Zip 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 an accelerated filer (as defined in Exchange Act Rule 12b-2). 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 3, 2004
Common Stock Outstanding 30,231,185**

This Form 10-Q/A is being filed solely to correct a typographical error in the unaudited pro forma net income (loss) for the three months ended March 31, 2004 reported in the chart in Item 1, Note 3 to the Company's unaudited consolidated financial statements, which presented pro forma results of operations for the three months ended March 31, 2004 and 2003 giving effect to the Company's acquisition of KD Scientific, Inc. as if it had occurred as of January 1, 2003. The correct unaudited pro forma net income (loss) for the three months ended March 31, 2004 had the Company's acquisition of KD Scientific, Inc. had occurred as of January 1, 2003 is a loss of \$120,000. The Company's unaudited consolidated financial statements for the three months ended March 31, 2004, including the Company's actual net income (loss) and net income (loss) per share, as well as the unaudited pro forma revenues and unaudited pro forma net income (loss) per share in Note 3, are unchanged from those previously reported in the Company's Form 10-Q for the quarter ended March 31, 2004. None of the other information contained in this Form 10-Q/A has been amended from the original Form 10-Q for the quarter ended March 31, 2004. All other information speaks as of the filing date of the original Form 10-Q filed as of May 10, 2004.

**HARVARD BIOSCIENCE, INC.
Form 10-Q
For the Quarter Ended March 31, 2004**

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PART I. FINANCIAL INFORMATION

Item 1. Unaudited Consolidated Financial Statements.

**HARVARD BIOSCIENCE, INC. AND SUBSIDIARIES
CONSOLIDATED BALANCE SHEETS**

(unaudited) (in thousands, except share and per share amounts)

	<u>3/31/04</u>	<u>12/31/03</u>
Current assets:		
Cash and cash equivalents	\$ 9,773	\$ 8,223
Trade accounts receivable, net of reserve for uncollectible accounts of \$434 and \$417 at March 31, 2004 and December 31, 2003, respectively, (note 8)	18,602	19,075
Other receivables and other assets	812	1,279
Inventories (note 7)	25,703	24,679
Prepaid expenses	2,704	2,022
Deferred tax asset	500	500
Total current assets	58,094	55,778
Property, plant and equipment, net	6,369	6,746
Other assets:		
Deferred tax asset	436	400
Amortizable intangible assets, net of accumulated amortization of \$6,046 and \$5,103 at March 31, 2004 and December 31, 2003, respectively (notes 3 and 4)	31,884	28,212
Goodwill and other indefinite lived intangible assets (notes 3 and 4)	38,611	36,341
Other assets	1,031	952
Total other assets	71,962	65,905
Total assets	\$ 136,425	\$ 128,429
Current liabilities:		
Current installments of long-term debt	\$ 396	\$ 398
Trade accounts payable	6,037	6,457
Deferred revenue	2,561	2,080
Accrued income taxes payable	643	1,218
Accrued expenses	5,711	4,984
Other liabilities	362	459
Total current liabilities	15,710	15,596
Long-term debt, less current installments	19,387	12,787
Deferred income tax liability	212	207
Other liabilities	993	961
Total long-term liabilities	20,592	13,955
Total liabilities	36,302	29,551

Stockholders' equity:

Preferred stock, par value \$.01 per share, 5,000,000 shares authorized; 0 shares issued and 0 shares outstanding at March 31, 2004 and December 31, 2003		
Common stock, par value \$.01 per share, 80,000,000 shares authorized; 34,869,019 and 34,796,463 shares issued and 30,208,235 and 30,132,685 shares outstanding at March 31, 2004 and December 31, 2003, respectively	349	348
Additional paid-in-capital	172,795	172,448
Accumulated deficit	(78,642)	(78,591)
Accumulated other comprehensive income	6,289	5,341
Treasury stock, 4,660,784 common shares, at cost	(668)	(668)
Total stockholders' equity	100,123	98,878
Total liabilities and stockholders' equity	\$ 136,425	\$ 128,429

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,	
	2004	2003
Product revenues	\$ 21,882	\$ 19,226
Research revenues	283	247
Total revenues	22,165	19,473
Costs and expenses:		
Cost of product revenues	11,544	9,635
General and administrative expense	3,522	2,825
Sales and marketing expense	4,297	3,600
Research and development expense	1,669	1,420
Stock compensation expense	47	147
Amortization of goodwill and other intangibles (note 4)	923	625
Operating income	163	1,221
Other income (expense):		
Foreign currency gain (loss)	(143)	114
Interest expense	(186)	(39)
Interest income	62	66
Amortization of deferred financing costs	(27)	—
Other	(20)	(32)
Other income (expense), net	(314)	109
Income (loss) before income taxes	(151)	1,330
Income tax expense (benefit)	(100)	554
Net income (loss)	\$ (51)	\$ 776
Income (loss) per share (note 6):		
Basic	\$ (0.00)	\$ 0.03
Diluted	\$ (0.00)	\$ 0.03
Weighted average common shares:		
Basic	30,164	29,892
Diluted	30,164	30,137

See accompanying notes to unaudited consolidated financial statements.

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

Three Months Ended	
March 31,	
2004	2003

Cash flows from operating activities:					
Net income (loss)		\$	(51)	\$	776
Adjustments to reconcile net income (loss) to net cash provided by operating activities:					
Stock compensation expense			47		147
Depreciation			625		503
Amortization of catalog costs			10		147
Loss on sale of fixed assets			2		—
Provision for bad debts			5		—
Amortization of goodwill and other intangibles			923		625
Amortization of deferred financing costs			27		—
Deferred income taxes			(35)		(245)
Changes in operating assets and liabilities, net of effects of business acquisitions:					
(Increase) decrease in accounts receivable			1,047		(1,128)
Decrease in other receivables			121		47
(Increase) decrease in inventories			(356)		280
(Increase) decrease in prepaid expenses and other assets			(647)		9
Decrease in other assets			236		240
Decrease in trade accounts payable			(957)		(213)
Increase (decrease) in accrued income taxes payable			(594)		389
Increase (decrease) in accrued expenses			611		(648)
Increase (decrease) in deferred revenue			476		(102)
Increase (decrease) in other liabilities			11		(150)
Net cash provided by operating activities			<u>1,501</u>		<u>677</u>
Cash flows from investing activities:					
Additions to property, plant and equipment			(243)		(323)
Additions to catalog costs			—		(5)
Proceeds from sales of fixed assets			2		—
Acquisition of businesses, net of cash acquired			(6,573)		(12,344)
Net cash used in investing activities			<u>(6,814)</u>		<u>(12,672)</u>
Cash flows from financing activities:					
Proceeds from short-term debt			—		6,000
Net proceeds from long-term debt			6,950		—
Repayments of long-term debt			(365)		(40)
Net proceeds from issuance of common stock			301		6
Net cash provided by financing activities			<u>6,886</u>		<u>5,966</u>
Effect of exchange rate changes on cash			<u>(23)</u>		<u>37</u>
Increase (decrease) in cash and cash equivalents			1,550		(5,992)
Cash and cash equivalents at the beginning of period			8,223		15,313
Cash and cash equivalents at the end of period			<u>\$ 9,773</u>		<u>\$ 9,321</u>
Supplemental disclosures of cash flow information:					
Cash paid for interest			\$ 167		\$ 39
Cash paid for income taxes			\$ 536		\$ 263

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 the Company and its wholly-owned subsidiaries as of March 31, 2004, and for the three month periods ended March 31, 2004 and March 31, 2003, have been prepared in accordance with accounting principles generally accepted in the United States of America and include all adjustments which, in the opinion of management, are necessary to present fairly the results of operations for the periods then ended. All such adjustments are of a normal recurring nature. These unaudited consolidated financial statements should be read in conjunction with the consolidated financial statements for the year ended December 31, 2003 and the notes thereto included in the Company's Annual Report on Form 10-K filed with the Securities and Exchange Commission ("SEC").

The results of operations for any interim period are not necessarily indicative of the results of operations for a full fiscal year.

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, 2003, filed with the SEC.

2. Recently Issued Accounting Pronouncements

In December 2003, the Financial Accounting Standards Board ("FASB") issued Statement of Financial Accounting Standards ("SFAS") Interpretation No. 46 (revised December 2003) ("FIN 46R"), *Consolidation of Variable Interest Entities*, which addresses how a business enterprise should evaluate whether it has a controlling financial interest in an entity through means other than voting rights and accordingly should consolidate the entity. FIN 46R replaces SFAS Interpretation No. 46, *Consolidation of Variable Interest Entities*, which was issued in January 2003. The Company will be required to apply FIN 46R to variable interests in VIEs created after December 31, 2003. For variable interests in VIEs created before January 1, 2004, the Interpretation will be applied beginning on January 1, 2005. For any VIEs that must be consolidated under FIN 46R that were created before January 1, 2004, the assets, liabilities and noncontrolling interests of the VIE initially would be measured at their carrying amounts with any difference between the net amount added to the balance sheet and any previously recognized interest being recognized as the cumulative effect of an accounting change. If determining the carrying amounts is not practicable, fair value at the date FIN 46R first applies may be used to measure the assets, liabilities and noncontrolling interest of the VIE. The adoption of this Interpretation did not have a material impact on its consolidated results of operations or financial position.

In December 2003, SFAS No. 132 (revised), *Employers' Disclosures about Pensions and Other Postretirement Benefits*, was issued. SFAS No. 132 (revised) prescribes employers' disclosures about pension plans and other postretirement benefit plans; it does not change the measurement or recognition of those plans. The Statement retains and revises the disclosure requirements contained in the original SFAS No. 132. It also requires additional disclosures about the assets, obligations, cash flows, and net periodic benefit cost of defined benefit pension plans and other postretirement benefit plans. The Statement generally is effective for fiscal years ending after December 15, 2003, however all of the Company's pension plans covered by this Statement are outside of the United States. The Company adopted certain interim disclosure requirements of SFAS No. 132 (revised) as of January 1, 2004. See Note 10 to the unaudited consolidated Financial Statements. The Company will be required to adopt the remaining disclosure requirements of the Statement as of December 31, 2004.

3. Acquisitions

On September 19, 2003, the Company, through its Genomic Solutions subsidiary, acquired substantially all of the assets of BioRobotics, Ltd. ("BioRobotics"), a subsidiary of Apogent Technologies Inc. for approximately \$3.6 million payable partly in cash and partly in the assumption of certain limited liabilities (including \$0.4 million in acquisition related expenses). The results of operations have been included in the consolidated financial statements since the date of acquisition. BioRobotics designs, develops, manufactures and distributes life science instrumentation for DNA microarray manufacturing and colony picking. As of March 31, 2004, the Company has not finalized the purchase price allocation. A preliminary estimate of the allocation was prepared and included as part of these consolidated financial statements as the final valuation of the assets and liabilities acquired has not yet been completed. The preliminary allocation of the purchase price is as follows: \$1.4 million to existing technology, current assets of \$2.3 million, \$0.3 million to property, plant and

equipment, \$0.3 million to goodwill and other indefinite lived intangibles and liabilities assumed of \$0.7 million. During the first quarter of 2004, approximately \$148,000 of fair value adjustments related to BioRobotics' acquired backlog and inventory was expensed through cost of product revenues for orders that were sold during the quarter. We anticipate that the final valuation of assets and liabilities acquired will be completed during the third quarter of 2004.

On November 24, 2003, the Company acquired certain assets and liabilities of the Hoefer one-dimensional gel electrophoresis business of Amersham Biosciences Corp., including the Hoefer brand name for approximately \$5.4 million (including acquisition costs of approximately \$0.5 million). The results of operations have been included in the consolidated financial statements since the date of acquisition. As of March 31, 2004, the Company has not finalized the purchase price allocation. A preliminary estimate of the allocation was prepared and included as part of these consolidated financial statements as the final valuation of the assets and liabilities acquired has not yet been completed. The preliminary allocation of the purchase price is as follows: \$0.3 million to existing technology, \$0.7 to goodwill, current assets of \$1.8 million, \$0.5 million to property, plant and equipment and \$2.0 million to a distribution agreement. During the first quarter of 2004, approximately \$123,000 of fair value adjustments related to Hoefer's backlog and inventory was expensed through cost of product revenues for orders that were sold during the quarter. We anticipate that the fair value valuation of assets and liabilities acquired will be completed during the second quarter of 2004.

On March 3, 2004, the Company acquired all issued and outstanding stock of KD Scientific, Inc. for approximately \$6.86 million (including acquisition costs of approximately \$0.2 million). The acquisition was funded by proceeds from the \$20 million credit facility entered into in November 2003 with Brown Brothers Harriman. The results of operations of KD Scientific have been included in the consolidated operating results of the Company from the date of acquisition. As of March 31, 2004, the Company has not finalized the purchase price allocation. A preliminary estimate of the allocation was prepared and included as part of these consolidated financial statements as the final valuation of assets and liabilities acquired has not yet been completed. The preliminary allocation of the purchase price is as follows: \$4.8 million to customer relationships acquired, \$1.2 million to goodwill, \$0.3 million to existing technology, \$0.5 million to current assets, \$0.1 million to trademarks and liabilities assumed of \$0.1 million. During the first quarter of 2004, approximately \$31,000 of fair value adjustments related to KD Scientific's backlog and inventory was expensed through cost of product revenues for orders that were sold since the date of acquisition. We anticipate that the fair valuation of assets and liabilities will be completed during the third quarter of 2004.

The following unaudited pro forma results of operations gives effect to the acquisition of KD Scientific, Inc. as if it had occurred as of January 1, 2003. Such pro forma information reflects certain adjustments including amortization of intangible assets and income tax effect. The pro forma information does not necessarily reflect the results of operations that would have occurred had the acquisitions taken place as described and is not necessarily indicative of results that may be obtained in the future.

(Unaudited, in 000's except per share data)	Three Months Ended March 31,	
	2004	2003
Pro forma revenues	\$ 22,566	\$ 20,377
Pro forma net income (loss)	\$ (120)	\$ 784
Pro forma net income (loss) per share:		
Basic	\$ 0.00	\$ 0.03
Diluted	\$ 0.00	\$ 0.03
Pro forma weighted average common shares:		
Basic	30,164	29,892

4. *Goodwill and Other Intangible Assets*

On January 1, 2002, the Company fully adopted SFAS No. 142. As a result of the adoption, goodwill and other indefinite-lived intangible assets are no longer being amortized, but are subject to annual impairment reviews, or more frequently, if events or circumstances indicate there may be an impairment. The Company has selected December 31 as its annual impairment test date.

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Intangible assets consist of the following:

(in thousands)	March 31, 2004		December 31, 2003	
	Gross Carrying Value	Accumulated Amortization	Gross Carrying Value	Accumulated Amortization
Amortizable intangible assets:				
Existing technology	\$ 29,274	\$ 5,499	\$ 30,981	\$ 4,710
Tradenname	1,770	409	1,704	381
Distribution agreement	6,877	136	621	10
Patents	9	2	9	2
Total Amortizable Intangible Assets	\$ 37,930	\$ 6,046	\$ 33,315	\$ 5,103
Unamortizable intangible assets:				
Goodwill and other indefinite lived intangible assets	\$ 38,611	—	\$ 36,341	—
Total Intangible Assets	\$ 76,541	\$ 6,046	\$ 69,656	\$ 5,103

On March 3, 2004, the Company acquired intangible assets of approximately \$6.4 million in connection with the acquisition of KD Scientific consisting of approximately \$5.2 million of amortizable assets and \$1.2 million of goodwill.

Intangible asset amortization expense was approximately \$923,000 and \$625,000 for the three months ended March 31, 2004 and 2003, respectively. Amortization expense of existing amortizable intangible assets is estimated to be \$4.3 million for the year ending December 31, 2004, and \$4.5 million for the years ended December 31, 2005, 2006, 2007 and 2008. The change in goodwill and other intangible assets during 2004 is also the result of foreign currency translation adjustments and adjustments resulting from adjustments to preliminary purchase price allocations for certain 2003 acquisitions.

5. *Stock-Based Compensation*

The Company applies the intrinsic-value-based method of accounting prescribed by Accounting Principles Board (APB) Opinion No. 25, *Accounting for Stock Issued to Employees*, and related interpretations including FASB Interpretation No. 44, *Accounting for Certain Transactions Involving Stock Compensation, an interpretation of APB Opinion No. 25*, issued in March 2000, to account for its fixed-plan stock options. Under this method, the Company records compensation expense using the graded method, on the date of grant only if the current market price of the underlying stock exceeds the exercise price and the number of stock options is fixed. FASB No. 148, *Accounting for Stock-Based Compensation Transition and Disclosure, an amendment of FASB Statement No. 123, Accounting for Stock-Based Compensation*, provides alternative methods of transition for a voluntary change to the fair-value-based method of accounting for stock-based employee compensation plans under FASB No. 123 and amends the disclosure requirements of FASB No. 123. As allowed by FASB No. 148 and 123, the Company has elected to continue to apply the intrinsic-value-based method of accounting described above, and has adopted only the disclosure requirements of FASB No. 148.

The following table illustrates the effect on net income (loss) if the fair-value-based method had been applied to all outstanding awards in each period:

(in thousands, except per share data)	Three Months Ended	
	March 31, 2004	March 31, 2003
Net income (loss) available to common stockholders, as reported	\$ (51)	\$ 776
Add: stock-based employee compensation expense included in reported net income, net of tax	47	141
Deduct: total stock-based employee compensation expense determined under fair-value based method for all awards, net of tax	(513)	(974)
Pro forma net loss	\$ (517)	\$ (57)
Basic net income (loss) per share as reported	\$ (0.00)	\$ 0.03
Pro forma basic net loss per share	\$ (0.02)	\$ (0.00)
Diluted net income (loss) per share as reported	\$ (0.00)	\$ 0.03
Pro forma diluted net loss per share	\$ (0.02)	\$ (0.00)

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The fair value of each option grant for the Company's stock option plans is estimated on the date of the grant using the Black-Scholes pricing model.

6. *Income (Loss) Per Share*

Basic income (loss) 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 (loss) 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:

<u>(in thousands)</u>	<u>Three Months Ended</u>	
	<u>March 31, 2004</u>	<u>March 31, 2003</u>
Weighted average common shares outstanding (basic)	30,164	29,892
Weighted average common equivalent shares due to stock options	—	245
Weighted average common shares outstanding (diluted)	<u>30,164</u>	<u>30,137</u>

For the three months ended March 31, 2004, common stock equivalent shares of 1,530,871 were not included in the computation of diluted earnings per share because to do so would have been antidilutive. For the three months ended March 31, 2003, options to purchase 1,077,058 shares of common stock were outstanding but were not included in the calculation of diluted earnings per share because the options' exercise prices were greater than the average market price of the common shares and, therefore, the effect would have been antidilutive.

7. *Inventories*

Inventories consist of the following:

<u>(in thousands)</u>	<u>March 31, 2004</u>	<u>December 31, 2003</u>
Finished goods	\$ 7,891	\$ 8,160
Work in process	4,312	4,327
Raw materials	13,500	12,192
	<u>\$ 25,703</u>	<u>\$ 24,679</u>

8. *Accounts Receivable*

Accounts receivable consists of the following:

<u>(in thousands)</u>	<u>March 31, 2004</u>	<u>December 31, 2003</u>
Trade accounts receivable	\$ 19,036	\$ 19,492
Allowance for doubtful accounts	(434)	(417)
	<u>\$ 18,602</u>	<u>\$ 19,075</u>

9. *Comprehensive Income*

Accumulated other comprehensive income, a component of stockholders' equity, as of March 31, 2004 and December 31, 2003, consists of cumulative foreign currency translation adjustments of \$6.8 million and \$5.8 million, respectively and a minimum additional pension liability of \$(0.5) million. The components of total comprehensive income were as follows:

<u>(in thousands)</u>	<u>Three Months Ended</u>	
	<u>March 31, 2004</u>	<u>March 31, 2003</u>
Net income (loss)	\$ (51)	\$ 776
Other comprehensive income (loss)	948	(190)
Comprehensive income	<u>\$ 897</u>	<u>\$ 586</u>

Other comprehensive income (loss) for the periods ended March 31, 2004 and 2003 consists of foreign currency translation adjustments.

10. *Employee Benefit Plans*

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

<u>(in thousands)</u>	<u>Three Months Ended</u>	
	<u>March 31, 2004</u>	<u>March 31, 2003</u>
Components of net periodic benefit cost:		
Service cost	\$ 101	\$ 85
Interest cost	156	122
Expected return on plan assets	(170)	(135)
Net amortization loss	31	35
Net periodic benefit cost	<u>\$ 118</u>	<u>\$ 107</u>

For the quarter ended March 31, 2004, the Company has contributed approximately \$123,000 to the pension plans.

11. *Legal Proceedings*

On February 4, 2002, Paul D. Grindle, the former owner of Harvard Apparatus, Inc., initiated an arbitration proceeding against us and certain directors before JAMS in Boston, Massachusetts. Mr. Grindle's claims arise out of post-closing purchase price adjustments related to our purchase of the

assets and business of Harvard Apparatus by virtue of an Asset Purchase Agreement dated March 15, 1996 and certain related agreements. In the arbitration demand, Mr. Grindle sought the return of 1,563,851 shares of common stock in Harvard Bioscience, or the disgorgement of the profits of our sale of the stock, as well as compensatory damages and multiple damages and attorney's fees under Mass. Gen. Laws, chapter 93A. In a demand letter that was attached to the arbitration demand, Mr. Grindle asserted losses in the amount of \$15 million, representing the value of the 1,563,851 shares of Harvard Bioscience's common stock as of January 2, 2002. On October 30, 2002, we received a decision from the arbitrator that we have prevailed on all claims asserted against us and certain of our directors in the arbitration action. Specifically, we received a written decision from the arbitrator granting our motion for summary disposition with respect to all claims brought against all parties in the action. The Company filed a complaint in the Massachusetts Superior Court seeking to confirm the arbitrator's decision. Mr. Grindle filed a complaint in the Massachusetts Superior Court seeking to vacate the arbitrator's decision. These two matters were consolidated. On or about July 30, 2003, the Massachusetts Superior Court granted our motion to confirm the arbitrator's decision and to deny Mr. Grindle's motion to vacate. Mr. Grindle has filed a notice of appeal with the Massachusetts Appeals Court. Both Mr. Grindle and the Company have filed briefs with the Massachusetts Appeals Court. The matter is pending. Mr. Grindle also filed an application for direct appellate review with the Massachusetts Supreme Judicial Court, which was denied.

In addition, from time to time, we may be involved in various claims and legal proceedings arising in the ordinary course of business. Except as disclosed above, we are not currently a party to any such claims or proceedings, which, if decided adversely to us, would either individually or in the aggregate have material adverse effect on our business, financial condition or results of operations.

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

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 our expected research and development spending, the impact of acquisitions on future earnings, the effect of our technology on the drug development process, our intention to strengthen our market position, management's confidence or expectations, our business strategy, our positioning for revenue and other growth, our ability to successfully implement an action plan for our genomics, proteomics and high throughput screening product lines, our ability to reduce the risk of being dependent on a single technology, our ability to avoid competition with major instrument companies, our acquisition strategy (including our ability to accelerate the growth of acquired products through our established brands and distribution channels, our ability to raise capital or borrow funds to consummate acquisitions and the availability of attractive acquisition candidates), our plans and intentions regarding the distribution of our catalog and supplements to our catalog, our expectations regarding future costs of product revenues, the market demand and opportunity for our products, our beliefs regarding our position in comparison to our competitors, our estimates regarding our capital requirements, the timing of future product introductions, or the ability of our patent strategy to protect our current and future products, our expectations in connection with current litigation (including inferences about the finality of the arbitrator's decision in the Grindle matter and potential appeal of or other challenge to that decision), 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. We discuss many of these risks in detail under the heading "Important Factors That May Affect Future Operating Results" beginning on page 18 of this Quarterly Report on Form 10-Q. You should carefully review all of these factors, as well as other risks described in our public filings, and you should be aware that there may be other factors, including factors of which we are not currently aware, that could cause these differences. 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.

Overview

From 1997 to 2003 our revenues grew at an annual compounded growth rate of approximately 40%. This was achieved by implementing our three-part growth strategy of new product development, strategic partnerships and acquisitions. This strategy has provided us with strong organic growth in good economic times and in tough economic times, such as we experienced in 2002 and 2003, it has provided us with strong acquisition growth. For 2004 we expect revenue growth without further acquisitions to be below our historic levels. During 2003 and for the first quarter of 2004, although we continued with new product development and strategic partnerships which did contribute to revenues, our revenue growth was primarily due to acquisitions we made in 2002, 2003 and 2004. Our recent acquisition activity history is listed in Note 3 to our unaudited Consolidated Financial Statements.

With the acquisitions of Union Biometrica in May 2001, Genomic Solutions in October 2002, GeneMachines in March 2003 and BioRobotics in September 2003, an increasing portion of our revenues is the result of sales of relatively high-priced products, considered to be capital equipment. Approximately 40% of our revenues for the year ended December 31, 2003 and 31% of our revenues for the three months ended March 31, 2004 was derived from capital equipment products. The capital equipment market is very seasonal compared to our traditional catalog business and as such, we believe we have experienced, and we believe we will continue to experience, substantial fluctuations in our quarterly revenues. Delays in purchase orders, receipt, manufacture or shipment of products or receivables collection of these relatively high-priced products have lead to substantial variability in our revenues, operating results and working capital requirements from quarter-to-quarter as evidenced in our first quarter 2004 results.

Additionally, the cyclical buying pattern of the capital equipment purchasing market could mask or exaggerate the economic trends underlying the market for our capital equipment product lines. Specifically, a decline in any quarter that is typically a quarter that we would expect to contribute less than one-quarter of projected revenue for the year, could be misinterpreted if the decline was due instead to a negative trend in the market and/or in the demand for our products. Conversely, an increase in any quarter that is typically a quarter which we would expect to contribute less than one-quarter of projected revenue for the year, could be misinterpreted as a favorable trend in the market and/or in the demand for our products. This could have a material adverse effect on our operations.

In general, we believe that we have seen, particularly in the last half of 2003 and in the first quarter of 2004, a strengthening in the economy. However, we do believe that the economy is still uncertain, with the outlook for the genomics, proteomics and high-throughput screening markets looking particularly uncertain. It is in these product markets that the majority of our capital equipment business is. While we are optimistic that we can return to solid organic growth in addition to growth from acquisitions, we are unable to determine if the strength we saw in the second half of 2003 and first quarter of 2004 is a trend that is likely to continue, or is even a trend. We are continuing to monitor the market, as well as our internal resources, as we pursue our goal of maintaining and/or improving the operating metrics of the Company, and accordingly during the second quarter of 2004, we expect to implement an action plan, to enable us to bring our genomics, proteomics and high-throughput screening product lines back in line with our goals of solid operating metrics and profitability across all product lines and operations. Any costs associated with this action plan will likely have an adverse impact on second quarter 2004 earnings results.

Generally, management evaluates the financial performance of its operations before the effects of stock compensation expense and before the effects of purchase accounting related to our acquisitions. Our goal is to develop and sell products that profitably accelerate drug discovery and as such we monitor the operating metrics of the Company 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, weakened economy, soft market conditions and personnel changes. In the table below, we provide an overview of the operating metrics commonly reviewed by our management.

During 2003 we entered into a \$20 million credit facility with Brown Brothers Harriman & Co, under which we have drawn down approximately \$19.4 million as of May 7, 2004. We believe that the financial covenants contained in the credit facility involving income, debt coverage and cash flow, as well as minimum working capital requirements are covenants that we will be in compliance with under current operating plans. The credit facility also contains limitations on our ability to incur additional indebtedness. Additionally, the facility requires creditor approval for acquisitions funded with cash in excess of \$6 million and for those which may be funded with equity in excess of \$10 million. We do not believe that these requirements will be a significant constraint in operating the Company and continuing with the acquisition portion of our growth strategy.

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 three part growth strategy we will need to raise more capital, either by incurring additional debt, issuing equity or a combination. Currently, we are unable to access the public equity markets due to an outstanding amendment to a Current Report on Form 8-K in connection with a previous acquisition. In addition, we are not currently eligible to use Form S-3 to effect a registration of our equity as a result of this delinquent filing. We are in the process of seeking to complete this outstanding filing and anticipate that we will become current with our required filings under Form 8-K. Once we become current with our SEC filing, we will immediately be eligible to register equity and will be eligible to use Form S-3 twelve months after the initial due date of the outstanding Form 8-K amendment. However, until this matter is resolved, our ability to raise capital may be limited to private equity transactions and/or additional borrowing and may result in entering into an agreement on less than favorable terms.

(in thousands, unaudited)	Selected Operating Metrics for the three months ended March 31,			
	2004	% of Revenue	2003	% of Revenue
Total Revenues	\$ 22,165		\$ 19,473	
Cost of Product Revenues	11,544	52.1%	9,635	49.5%
Sales and Marketing Expense	4,297	19.4%	3,600	18.5%
Research and Development Expense	1,669	7.5%	1,420	7.3%
General & Administrative Expense	3,522	15.9%	2,825	14.5%

Revenues. We generate revenues by selling 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 intend to 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 a function 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 March 2004, with approximately 1,100 pages and approximately 70,000 copies printed. Revenues direct to end users, derived through our catalog and the electronic version of our catalog on our website, and represented approximately 25% of our revenues for the year ended December 31, 2003 and approximately 24% for the three months ended March 31, 2004. We do not currently have the capability to accept purchase orders through our website.

Products typically in the \$5,000 - \$15,000 price range are primarily sold under brand names of distributors including Amersham Biosciences. 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 year ended December 31, 2003 approximately 45% of our revenues were derived from sales to distributors. For the three months ended March 31, 2004, approximately 53% of our revenues were derived from sales to distributors.

For our higher priced products, generally those priced over \$25,000, we have direct sales organizations which consist of sales and marketing personnel, customer support, technical support and field application service support. These organizations have been structured to attend to the specific needs associated with the promotion and support of higher priced capital equipment customers. The combined expertise of both our sales and technical support staff provide a balanced skill set when promoting the relevant products at seminars, on-site demonstrations and exhibitions which are done routinely. The expertise of our field service personnel provides complete post-sale customer support for instrument specific service, repair and maintenance, and applications support. For the year ended December 31, 2003 and for the three months ended March 31, 2004, approximately 30% and 23%, respectively, of our revenues were derived from sales by our direct sales force.

For the year ended December 31, 2003 and for the three months ended March 31, 2004, approximately 91% and 92%, respectively, of our revenues were derived from products we manufacture or from collaboration and research grant projects. The remaining 9% and 8%, respectively of our revenues 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 year ended December 31, 2003 and the three months ended March 31, 2004, approximately 50% and 48%, 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 Amersham Biosciences, the distributor for our spectrophotometers, plate readers and 1-D gel electrophoresis products. Amersham Biosciences distributes these products to customers around the world, including to 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.

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 costs 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 goods sold because the profit is effectively shared with the original manufacturer. We anticipate that our manufactured products will continue to have a lower cost of goods sold 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 end user sales and distributor sales.

General and administrative expense. 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 facility costs, professional fees for legal and accounting services, investor relations, insurances and provision for doubtful accounts.

Sales and marketing expense. 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 1,100 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.

Research and development expense. 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 significant 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 expense. Stock compensation expense resulting from stock option grants to our employees represents the difference

between the fair market value and the exercise price of the stock options on the grant date for those options considered fixed awards. Stock compensation is amortized as a charge to operations over the vesting period of the options.

Critical Accounting Policies

We believe that our critical accounting policies are as follows:

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

Valuation of identifiable intangible assets 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 25% to 31.5%, 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 25% to 36%, reflects the business and financial risks of an investment in technologies. Forecasts of future cash flows are based on managements' judgment of expected conditions and expected courses of action.

Valuation of in-process research and development 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 the Company and the industry to constantly develop new technology for future product releases and ranged from 25% to 43.5%. The forecasts used by the Company in valuing in-process research and development were based on assumptions the Company 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 the Company's estimates will 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 impairment of identifiable intangibles with finite lives and long-lived assets 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 Amersham Biosciences; 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

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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 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. Assets to be disposed of are reported at the lower of the carrying amount or fair value less costs to dispose.

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 impairment test consists of a comparison of the fair value of the Company's reporting units with their carrying amount. If the carrying amount exceeds its fair value, the Company is 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. In accordance with SFAS No. 142, the Company performed its annual impairment test on December 31, 2003, which did not indicate any impairment.

Accounting for income taxes. We are required to 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 must 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, we must allocate the related income tax expense to income from continuing operations in the consolidated statement of operations to the extent those deferred tax assets originated from continuing operations. To the extent income tax benefits are allocated to stockholders' equity, the related valuation allowance also must be allocated to stockholders' equity.

Management judgment and estimates are required in determining our income tax provision, deferred tax assets and liabilities and any valuation allowance recorded against net deferred tax assets. We have established a valuation allowance attributable to certain acquisition-related temporary differences as we believe that a portion of the deferred tax assets at March 31, 2004 will not meet the "more likely than not" standard for realization 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.

Revenue recognition. The Company generally recognizes revenue upon shipment of product and/or performance of a service, such as installation or training. Revenue is recognized if persuasive evidence of an arrangement exists, the sales price is fixed or determinable, customer acceptance has occurred, collectibility is reasonably assured and title and risk of loss have passed to the customer. The Company has 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. The Company provides for the estimated costs to fulfill customer warranty obligations upon the recognition of the related revenue. The Company provides for the estimated amount of future returns upon shipment of products or installation, if applicable, based on historical experience. While product returns and warranty costs have historically not been significant, 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. The Company makes estimates evaluating its allowance for doubtful accounts. On an ongoing basis, the Company monitors collections and payments from its customers and maintains a provision for estimated credit losses based upon our historical experience and any specific customer collection issues that we have identified. While such credit losses have historically not been significant, 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.

Inventory. The Company values its 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. The Company regularly reviews inventory quantities on hand and records 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, the Company's industry is subject to technological change and new product development, and technological advances could result in an

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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 the Company's inventory and its reported operating results.

Results of Operations

Three months ended March 31, 2004 compared to three months ended March 31, 2003:

Revenues. Revenues increased \$2.7 million, or 14%, to \$22.2 million in the first quarter of 2004 from \$19.5 million in the first quarter of 2003. This increase is primarily due to the effects of acquisitions made since March 31, 2003. Revenues for the first quarter of 2004 would have been approximately \$21.3 million if our sales denominated in foreign currencies were translated into U.S. dollars using 2003 exchange rates, an increase of 9% over the first quarter of 2003. The favorable foreign exchange effects for the year is due primarily to the strengthening of the British pound sterling and the Euro against the U.S. dollar.

Cost of product revenues. Cost of product revenues increased \$1.9 million or 20%, to \$11.5 million in the first quarter of 2004 from \$9.6 million in the first quarter of 2003. As a percentage of product revenues, cost of product revenues for the first three months of 2004 was 53% compared to 50% for the same period in 2003. For the first quarter of 2004, approximately \$302,000 of the cost of product sales was related to fair value adjustments of inventory and backlog acquired from BioRobotics, Hoefer and KD Scientific for products which were shipped in the first quarter of 2004. For the first quarter of 2003, approximately \$333,000 of the cost of product sales was related to fair value adjustments of inventory and backlog acquired from Genomic Solutions, BTX and GeneMachines for products which were shipped in the first quarter of 2003. For the first quarter of 2004 and 2003, excluding fair value adjustments related to acquisitions of \$302,000 and \$333,000, respectively, in cost of product sales, gross margin as a percent of total revenues was 49% and 52%, respectively. Approximately \$87,000 of estimated fair value adjustments related to the acquisition of Hoefer remain on the balance sheet as of March 31, 2004. While gross margin percentages will fluctuate depending upon both the mix of product sold and the mix of customers the decrease in gross margin in the first quarter this year compared to the first quarter last year is largely due to an 11% gross margin drop at Genomic Solutions due to lower sales and production volumes and a higher percentage of revenues through distributors.

General and administrative expense. General and administrative expense increased \$0.7 million, or 25%, to \$3.5 million in the first quarter of 2004 compared to \$2.8 million for the same period in 2003. Approximately \$0.4 million is due to restructuring costs at our Biochrom and Genomic Solutions' Japan facilities and approximately \$0.3 million is attributable to acquisitions made since the first quarter of 2003 and additional costs for Sarbanes-Oxley compliance. As a percentage of revenues, general and administrative expense for the quarter ended March 31, 2004 and 2003 was approximately 16% and 15%, respectively.

Sales and marketing expense. Sales and marketing expense increased \$0.7 million, or 19%, to \$4.3 million in the first quarter of 2004 from \$3.6 million in the first quarter of 2003 due primarily to acquisitions made since March 31, 2003. As a percentage of revenues, sales and marketing expense was 19% in the first quarter of 2004 compared to 18% for the same period in 2003.

Research and development expense. Research and development spending, which includes expenses related to research revenues, was \$1.7 million in the first three months of 2004 compared to \$1.4 million for the same period in 2003. This increase is primarily due to acquisitions made since March 31, 2003. As a percentage of revenues, research and development was 8% and 7% for the three months ended March 31, 2004 and 2003 respectively.

Stock compensation expense. In the first quarter of 2004 we recorded approximately \$46,500 compared to \$147,000 for the first quarter of 2003 of stock compensation expense. For 2004, this expense is related to options granted prior to our initial public offering and to options granted to certain employees of Warner instruments whose vesting was accelerated pursuant to separation agreements entered into as part of the restructuring of operations at Warner Instruments. For the first quarter of 2003, this expense is related to options granted prior to our initial public offering and to options issued in exchange for the outstanding options of Union Biometrica in connection with the acquisition of Union Biometrica. Stock compensation expense has decreased as the Company uses the graded method, which results in decreasing compensation expense from the date of the stock option grant until the vesting dates. We will recognize approximately \$15,680 of stock compensation expense over the remaining vesting life of the options.

Amortization of goodwill and other intangibles. Amortization of intangibles, including amortization of acquired technologies, was \$0.9 million in the first three months of 2004 compared to \$0.6 million for the same period in 2003. This increase is directly attributed to acquisitions made in 2003 and during the first quarter of 2004.

Other income (expense), net. Other expense, net for the first quarter of 2004 of \$314,000 included approximately \$124,000 net interest expense compared to net interest income of \$27,000 for the same period in 2003. This shift from interest income to interest expense is due to cash and interest-bearing debt being increasingly used to fund acquisitions since 2003. Other expense, net for the first quarter of 2004

also included a \$143,000 foreign exchange loss compared to a \$114,000 gain for the same period last year. Other than debt that is treated as a long-term investment, these exchange gains and losses are primarily related to debt between our subsidiaries.

Income taxes. The Company's effective income tax rates were 66.42% for the first quarter of 2004 and 41.64% for the first quarter of 2003 notwithstanding the effects of certain stock compensation expense. The increase in the effective income tax rate is principally due to the Company earning a larger percentage of its total operating loss in jurisdictions that have greater effective income tax rates, principally the United States.

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. As of March 31, 2004, we had cash and cash equivalents of \$9.8 million which represents an increase of approximately \$1.6 million from December 31, 2003. In connection with our March 2004 acquisition of KD Scientific, we borrowed an additional \$6.65 million under the credit facility and currently have approximately \$19.4 million outstanding thereunder.

Our operating activities generated cash of \$1.5 million in the first quarter of 2004 and \$0.7 million for the first quarter of 2003. For all periods presented, operating cash flows were primarily due to operating results, including the full-year effect of acquisitions prior to non-cash charges, partially offset by working capital requirements.

Our investing activities used cash of \$6.8 million in the first quarter of 2004 compared to \$12.7 million for the same period in 2003 primarily for funding acquisitions which are more fully described in Note 3 to our unaudited Consolidated Financial Statements.

Our financing activities have historically consisted of borrowings under a revolving credit facility, long-term debt and the issuance of preferred stock and common stock, including the common stock issued in our initial public offering. Financing activities provided cash of \$6.9 million in the first quarter of 2004 and \$6.0 million in the first quarter of 2003. In the first quarter of 2004, we borrowed an additional \$6.65 million under the \$20 million credit facility with Brown Brothers Harriman & Co. to fund the acquisition of KD Scientific. In the first quarter of 2003, we entered into a \$6.0 million bridge loan with Brown Brothers Harriman & Co. in anticipation of closing the \$20 million credit facility. The bridge loan was repaid with proceeds of the credit facility.

**Overview of Cash Flows for the three months ended March 31,
(in thousands, unaudited)**

	2004	2003
Cash flows from operations:		
Net Income (loss)	\$ (51)	\$ 776
Adjust non cash items	1,604	1,177
Changes in assets and liabilities	(52)	(1,276)
Cash provided by operations	1,501	677
Investing activities:		
Acquisition of businesses	(6,573)	(12,344)
Other Investing activities	(241)	(328)
Cash used by investing activities	(6,814)	(12,672)
Financing activities:		
Cash provided by debt	6,950	6,000
Other financing activities	(64)	(34)
Cash provided by financing activities	6,886	5,966
Exchange effect on cash	(23)	37
Increase (decrease) in cash	\$ 1,550	\$ (5,992)

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 at least 12 months. 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. Currently, we are unable to access the public equity markets due to an outstanding

amendment to a Current Report on Form 8-K in connection with a previous acquisition. In addition, we are not currently eligible to use Form S-3 to effect a registration of our equity as a result of this delinquent filing. We are in the process of seeking to complete this outstanding filing and anticipate that we will become current with our required filings under Form 8-K. Once we become current with our SEC filings we will immediately be eligible to register equity and will be eligible to use Form S-3 twelve months after the initial due date of the outstanding Form 8-K amendment. However, until this matter is resolved, our ability to raise capital may be limited to private equity transactions and/or additional borrowing and may result in entering into an agreement on less than favorable terms. In addition, our credit facility with Brown Brothers Harriman contains limitations on our ability to incur additional indebtedness and requires creditor approval for acquisitions funded with cash in excess of \$6 million and for those which may be funded with equity in excess of \$10 million. Accordingly, there can be no assurance that we will be successful in raising additional capital on favorable terms or at all.

Impact of Foreign Currencies

We sell our products in many countries and a substantial portion of our sales, costs and expenses are denominated in foreign currencies, especially the United Kingdom pound sterling and the Euro. During the first quarter of 2004 and 2003 the U.S. dollar weakened against these currencies resulting in increased consolidated revenue and earnings growth. The gain associated with the translation of foreign equity into U.S. dollars was approximately \$0.9 million for the first quarter of 2004 and approximately \$0.2 million loss for the first quarter of 2003. In addition, the currency fluctuations resulted in approximately \$143,000 in foreign currency loss and \$114,000 in foreign currency gain in the first quarter of 2004 and 2003, respectively.

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 our currency risks and we may enter into foreign exchange contracts from time to time to mitigate foreign currency exposure.

Recent Accounting Pronouncements

In December 2003, the FASB issued SFAS Interpretation No. 46 (revised December 2003) ("FIN 46R"), *Consolidation of Variable Interest Entities*, which addresses how a business enterprise should evaluate whether it has a controlling financial interest in an entity through means other than voting rights and accordingly should consolidate the entity. FIN 46R replaces SFAS Interpretation No. 46, *Consolidation of Variable Interest Entities*, which was issued in January 2003. The Company will be required to apply FIN 46R to variable interests in VIEs created after December 31, 2003. For variable interests in VIEs created before January 1, 2004, the Interpretation will be applied beginning on January 1, 2005. For any VIEs that must be consolidated under FIN 46R that were created before January 1, 2004, the assets, liabilities and noncontrolling interests of the VIE initially would be measured at their carrying amounts with any difference between the net amount added to the balance sheet and any previously recognized interest being recognized as the cumulative effect on an

accounting change. If determining the carrying amounts is not practicable, fair value at the date FIN 46R first applies may be used to measure the assets, liabilities and noncontrolling interest of the VIE. The adoption of this Interpretation did not have a material impact on its consolidated results of operations or financial position.

In December 2003, FASB Statement No. 132 (revised), *Employers' Disclosures about Pensions and Other Postretirement Benefits*, was issued. SFAS No. 132 (revised) prescribes employers' disclosures about pension plans and other postretirement benefit plans; it does not change the measurement or recognition of those plans. The Statement retains and revises the disclosure requirements contained in the original SFAS No. 132. It also requires additional disclosures about the assets, obligations, cash flows, and net periodic benefit cost of defined benefit pension plans and other postretirement benefit plans. The Statement generally is effective for fiscal years ending after December 15, 2003, however all of the Company's pension plans covered by this Statement are outside of the United States. The Company adopted certain interim disclosure requirements of SFAS 132 (revised) as of January 1, 2004. See Note 10 to the unaudited Consolidated Financial Statements. The Company will be required to adopt the disclosure requirements of the Statement as of December 31, 2004.

Important Factors That May Affect Future Operating Results

Our operating results may vary significantly from quarter to quarter and year to year depending on a number of factors, including:

If we engage in any acquisition, we will incur a variety of costs, and may never realize the anticipated benefits of the acquisition.

Our business strategy includes the future acquisition of businesses, technologies, services or products that we believe are a strategic fit with our business. If we undertake any acquisition, the process of integrating an acquired business, technology, service or product may result in unforeseen operating difficulties and expenditures and may absorb significant management attention that would otherwise be available for ongoing development of our business. Moreover, we may fail to realize the anticipated benefits of any acquisition as rapidly as expected or at all. Future acquisitions could reduce stockholders' ownership, cause us to incur debt, expose us to future liabilities and result in amortization expenses related to intangible assets with definite lives.

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Uncertain economic trends may adversely impact our business.

We have experienced and may continue to experience reduced demand for our products as a result of the downturn and uncertainty in the general economic environment in which we and our customers operate. We cannot project the extent of the impact of the economic downturn and the environment specific to our industry. If economic conditions worsen or if a wider economic slowdown occurs, we may experience a material adverse effect on our business, operating results, and financial condition.

Our quarterly revenues will likely be affected by various factors, including the timing of capital equipment purchases by customers and the seasonal nature of purchasing in Europe.

Our quarterly revenues will likely be affected by various factors, including the seasonal timing of capital equipment purchases by customers and the seasonal nature of purchasing in Europe. Our revenues may vary from quarter to quarter due to a number of factors, including the seasonal nature of the capital equipment market, the timing of catalog mailings and new product introductions, future acquisitions and our substantial sales to European customers, who in summer months often defer purchases. With the acquisitions of Union Biometrica in May 2001, Genomic Solutions in October 2002, GeneMachines in March 2003 and BioRobotics in September 2003, an increasing portion of our revenues are the result of sales of relatively high-priced products, considered to be capital equipment. The capital equipment market is very seasonal and as such, we will experience substantial fluctuations in our quarterly revenues. Additionally, delays in purchase orders, receipt, manufacture, shipment or receivables collection of these relatively high-priced products could lead to substantial variability in revenues, operating results and working capital requirements from quarter-to-quarter, which could adversely affect our stock price. In particular, delays or reduction in purchase orders from the pharmaceutical and biotechnology industries could have a material adverse effect on us.

We may misinterpret trends of our capital equipment product lines due to the cyclical nature of the capital equipment purchasing market.

The cyclical buying pattern of the capital equipment purchasing market could mask or exaggerate the economic trends underlying the market for our capital equipment product lines. Specifically, a decline in any quarter that is typically a quarter that we would expect to contribute less than one-quarter projected revenue for the year, could be misinterpreted if the decline was due instead to a negative trend in the market or in the demand for our products. Conversely, an increase in any quarter that is typically a quarter that we would expect to contribute less than one-quarter of projected revenue for the year, could be misinterpreted as a favorable trend in the market and in the demand for our products. This could have a material adverse effect on our operations.

We may not realize the expected benefits of our recent acquisitions of BTX, GeneMachines, BioRobotics, Hoefer and KD Scientific due to difficulties integrating the businesses, operations and product lines.

Our ability to achieve the benefits of our recent acquisitions of BTX, GeneMachines, BioRobotics, Hoefer and KD Scientific will depend in part on the integration and leveraging of technology, operations, sales and marketing channels and personnel. The integration process is a complex, time-consuming and expensive process and may disrupt our business if not completed in a timely and efficient manner. The challenges involved in this integration include the following:

- demonstrating to customers and suppliers that the acquisitions will not result in adverse changes in client service standards or business focus and
- addressing any perceived adverse changes in business focus.

We may have difficulty successfully integrating the acquired businesses, the domestic and foreign operations or the product lines, and as a result, we may not realize any of the anticipated benefits of the acquisitions. Additionally, we cannot assure that our growth rate will equal the growth rates that have been experienced by us and the acquired companies, respectively, operating as separate companies in the past.

Genomic Solutions, our subsidiary acquired in October 2002, has a history of losses and may not be able to sustain profitability.

Genomic Solutions incurred net losses of \$4.0 million for the six months ended June 30, 2002, \$26.1 million for the year ended December 31, 2001, \$8.9 million for the year ended December 31, 2000 and \$11.1 million for the year ended December 31, 1999. As of June 30, 2002, Genomic Solutions had an

accumulated deficit of \$72.0 million. In September 2001, Genomic Solutions instituted a restructuring plan designed to reduce its operating expenses. In July 2002, Genomic Solutions announced a further restructuring of its operations. However, even with these restructurings, Genomic Solutions needs to generate significant revenues to achieve and maintain profitability.

Genomic Solutions' revenue growth depends on many factors, many of which are beyond its control, including factors discussed in this risk factors section. Genomic Solutions may not sustain revenue growth, as evidenced in the first quarter of 2004. Even though Genomic Solutions did achieve profitability in 2003, it may not sustain or increase profitability on a quarterly or annual basis, as evidence in the first quarter of 2004.

As an acquisitive company, we may be the subject of lawsuits from either an acquired company's previous stockholders or our current stockholders.

As an acquisitive company, we may be the subject of lawsuits from either an acquired company's previous stockholders or our current stockholders. These lawsuits could result from the actions of the acquisition target prior to the date of the acquisition, from the acquisition transaction itself or from actions after the acquisition. Defending potential lawsuits could cost us significant expense and detract management's attention from the operation of the business. Additionally, these lawsuits could result in the cancellation of or the inability to renew, certain insurance coverage that would be necessary to protect our assets.

Our business is subject to economic, political and other risks associated with international revenues and operations.

Since we manufacture and sell our products worldwide, our business is subject to risks associated with doing business internationally. Our revenues from our non-U.S. operations represented approximately 48% of total revenues for the three months ended March 31, 2004. We anticipate that revenue from international operations will continue to represent a substantial portion of total revenues. In addition, a number of our manufacturing facilities and suppliers are located outside the United States. Accordingly, our future results could be harmed by a variety of factors, including:

- changes in foreign currency exchange rates, which resulted in a foreign currency loss of approximately \$143,000 for the quarter ended March 31, 2004 and an increase of foreign equity of approximately \$948,000 for the quarter ended March 31, 2004.
- changes in a specific country's or region's political or economic conditions, including western Europe and Japan, in particular,
- potentially negative consequences from changes in tax laws affecting the ability to expatriate profits,
- difficulty in staffing and managing widespread operations, and
- unfavorable labor regulations applicable to European operations, such as severance and the unenforceability of non-competition agreements in the European Union.

We may lose money when we exchange foreign currency received from international revenues into U.S. dollars.

For the three months ended March 31, 2004, approximately 45% of our business was conducted in functional currencies other than the U.S. dollar, which is our reporting currency. As a result, currency fluctuations among the U.S. dollar and the currencies in which we do business have caused and will continue to cause foreign currency transaction gains and losses. Currently, we attempt to manage foreign currency risk through the matching of assets and liabilities. In the future, we may undertake to manage foreign currency risk through additional hedging methods. We recognize foreign currency gains or losses arising from our operations in the period incurred. We cannot guarantee that we will be successful in managing foreign currency risk or in predicting the effects of exchange rate fluctuations upon our future operating results because of the number of currencies involved, the variability of currency exposure and the potential volatility of currency exchange rates.

Additional costs for complying with recent changes in Securities and Exchange Commission, Nasdaq Stock Market and accounting rules could adversely affect our profits.

Recent changes in the Securities and Exchange Commission and Nasdaq rules, as well as changes in accounting rules, will cause us to incur significant additional costs including professional fees, as well as additional personnel costs, in order to keep informed of the changes and operate in a compliant manner. These additional costs may be significant enough to cause our growth targets to be reduced, and consequently, our financial position and results of operations may be negatively impacted.

With new rules, including the Sarbanes-Oxley Act of 2002, we may have difficulty in retaining or attracting officers, directors for the board and various sub-committees thereof.

The recent changes in SEC and Nasdaq rules, including those resulting from the Sarbanes-Oxley Act of 2002, may result in us being unable to attract and retain the necessary officers, board directors and members of sub-committees thereof, to effectively manage. The perceived increased personal risk associated with these recent changes, may deter qualified individuals from wanting to participate in these roles.

We may have difficulty obtaining adequate directors and officers insurance and the cost for coverage may significantly increase.

As an acquisitive company, we may have difficulty in obtaining adequate directors' and officers' insurance to protect us and our directors and officers from claims made against them. Additionally, even if adequate coverage is available, the costs for such coverage may be significantly greater than current costs. This additional cost may have a significant effect on our profits and as a result our results of operations may be adversely affected.

We plan significant growth, and there is a risk that we will not be able to manage this growth.

Our success will depend on the expansion of our operations both through organic growth and acquisitions. Effective growth management will place increased demands on management, operational and financial resources and expertise. To manage growth, we must expand our facilities, augment our operational, financial and management systems, and hire and train additional qualified personnel. Failure to manage this growth effectively could impair our ability to generate revenue or could cause our expenses to increase more rapidly than revenue, resulting in operating losses or reduced profitability.

If we fail to retain key personnel and hire, train and retain qualified employees, we may not be able to compete effectively, which could result in reduced revenue or increased costs.

Our success is highly dependent on the continued services of key management, technical and scientific personnel. Our management and other employees may voluntarily terminate their employment at any time upon short notice. The loss of the services of any member of the senior management team, including the Chief Executive Officer, Chane Graziano, the President, David Green, the Chief Financial Officer, Susan Luscinski, or any of the managerial, technical or scientific staff may significantly delay or prevent the achievement of product development and other business objectives. We maintain key person life insurance on Messrs. Graziano and Green. Our future success will also depend on our ability to identify, recruit and retain additional qualified scientific, technical and managerial personnel. Competition for qualified personnel in the technology area is intense, and we operate in several geographic locations where labor markets are particularly competitive, including Boston, Massachusetts and London and Cambridge, England, and where demand for personnel with these skills is extremely high and is likely to remain high. As a result, competition for qualified personnel is intense, particularly in the areas of general management, finance, information technology, engineering and science, and the process of hiring suitably qualified personnel is often lengthy and expensive, and may become more expensive in the future. If we are unable to hire and retain a sufficient number of qualified employees, our ability to conduct and expand our business could be seriously reduced.

Our competitors and potential competitors may develop products and technologies that are more effective or commercially attractive than our products.

We expect to encounter increased competition from both established and development-stage companies that continually enter the market. We anticipate that these competitors will include:

- companies developing and marketing life sciences research tools,
- health care companies that manufacture laboratory-based tests and analyzers,
- diagnostic and pharmaceutical companies,
- analytical instrument companies and
- companies developing drug discovery technologies.

Currently, our principal competition comes from established companies that provide products that perform many of the same functions for which we market our products. Our competitors may develop or market products that are more effective or commercially attractive than our current or future products. Many of our competitors have substantially greater financial, operational, marketing and technical resources than we do. Moreover, these competitors may offer broader product lines and tactical discounts, and may have greater name recognition. In addition, we may face competition from new entrants into the field. We may not have the financial resources, technical expertise or

marketing, distribution or support capabilities to compete successfully in the future.

Our products compete in markets that are subject to rapid technological change, and therefore one or more of our products could be made obsolete by new technologies.

Because the market for drug discovery tools is characterized by rapid technological change and frequent new product introductions, our product lines may be made obsolete unless we are able to continually improve existing products and develop new products. To meet the evolving needs of its customers, we must continually enhance our current and planned products and develop and introduce new products. However, we may experience difficulties that may delay or prevent the successful development, introduction and marketing of new products or product enhancements. In addition, our product lines are based on complex technologies that are subject to rapid change as new technologies are developed and introduced in the marketplace. We may have difficulty in keeping abreast of the rapid changes affecting each of the different markets we serve or intend to serve. Our failure to develop and introduce products in a timely manner in response to changing technology, market demands or the requirements of our customers could cause our product sales to decline, and we could experience significant losses.

We offer and plan to offer a broad product line and have incurred and expect to continue to incur substantial expenses for development of new products and enhanced versions of our existing products. The speed of technological change in our market may prevent us from being able to successfully market some or all of our products for the length of time required to recover development costs. Failure to recover the development costs of one or more products or product lines could decrease our profitability or cause us to experience significant losses.

We entered into a \$20 million credit facility in November 2003 which contains certain financial and negative covenants the breach of which may adversely affect our financial condition.

We anticipate that our operations will support the covenants required as part of the \$20 million revolving credit facility with Brown Brothers Harriman. However, if we are not in compliance with certain of these covenants, in addition to other actions the creditor may require, the amounts drawn on the \$20 million facility may become immediately due and payable. This immediate payment may negatively impact our financial condition and we may be forced by our creditor into actions which may not be in our best interests.

Failure to raise additional capital or generate the significant capital necessary to implement our acquisition strategy, expand our operations and invest in new products could reduce our ability to compete and result in lower revenue.

We anticipate that our financial resources which include available cash, cash generated from operations, and debt and equity capacity, will be sufficient to finance operations and capital expenditures for at least twelve months. However, this expectation is premised on the current operating plan, which may change as a result of many factors, including market acceptance of new products and future opportunities with collaborators. Consequently, we may need additional funding sooner than anticipated. Our inability to raise capital could seriously harm our business and product development and acquisition efforts.

If we raise additional funds through the sale of equity or convertible debt or equity-linked securities, existing percentages of ownership in our common stock will be reduced. In addition, these transactions may dilute the value of our outstanding common stock. We may issue securities that have rights, preferences and privileges senior to our common stock. If we raise additional funds through collaborations or licensing arrangements, we may relinquish rights to certain of our technologies or products, or grant licenses to third parties on terms that are unfavorable. We may be unable to raise additional funds on acceptable terms or at all. In addition, our credit facility with Brown Brothers Harriman contains limitations on our ability to incur additional indebtedness and requires creditor approval for acquisitions funded with cash in excess of \$6 million and for those which may be funded with equity in excess of \$10 million. Currently, we are unable to access the public equity markets due to an outstanding amendment to a Current Report on Form 8-K in connection with a previous acquisition. In addition, we are not currently eligible to use Form S-3 to effect a registration of our equity as a result of this delinquent filing. We are in the process of seeking to complete this outstanding filing and anticipate that we will become current with our required filings under Form 8-K. Once we become current with our SEC filings, we will immediately be eligible to register equity and will be eligible to use Form S-3 twelve months after the initial due date of the outstanding Form 8-K amendment. However, until this matter is resolved, our ability to raise capital may be limited to private equity transactions and/or additional borrowing and may result in entering into an agreement on less than favorable terms. If future financing is not available or is not available on acceptable terms, we may have to curtail operations or change our business strategy.

If we are unable to effectively protect our intellectual property, third parties may use our technology, which would impair our ability to compete in our markets.

Our continued success will depend in significant part on our ability to obtain and maintain meaningful patent protection for certain of our products throughout the world. Patent law relating to the scope of claims in the technology fields in which we operate is still evolving. The

degree of future protection for our proprietary rights is uncertain. We own 27 U.S. patents and have 26 patent applications pending in the U.S. We also own numerous U.S. registered trademarks and trade names and have applications for the registration of trademarks and trade names pending. We rely on patents to protect a significant part of our intellectual property and to enhance our competitive position. However, our presently pending or future patent applications may not issue as patents, and any patent previously issued to us may be challenged, invalidated, held unenforceable or circumvented. Furthermore, the claims in patents which have been issued or which may be issued to us in the future may not be sufficiently broad to prevent third parties from producing competing products similar to our products. In addition, the laws of various foreign countries in which we compete may not protect our intellectual property to the same extent as do the laws of the United States. If we fail to obtain adequate patent protection for our proprietary technology, our ability to be commercially competitive will be materially impaired.

In addition to patent protection, we also rely on protection of trade secrets, know-how and confidential and proprietary information. To maintain the confidentiality of trade-secrets and proprietary information, we generally seek to enter into confidentiality agreements with our employees, consultants and strategic partners upon the commencement of a relationship. However, we may not obtain these agreements in all circumstances. In the event of unauthorized use or disclosure of this information, these agreements, even if obtained, may not provide meaningful protection for our trade-secrets or other confidential information. In addition, adequate remedies may not exist in the event of unauthorized use or disclosure of this information. The loss or exposure of our trade secrets and other proprietary information would impair our competitive advantages and could have a material adverse effect on our operating results, financial condition and future growth prospects.

We may be involved in lawsuits to protect or enforce our patents that would be expensive and time-consuming.

In order to protect or enforce our patent rights, we may initiate patent litigation against third parties. We may also become subject to interference proceedings conducted in the patent and trademark offices of various countries to determine the priority of inventions. Several of our products are based on patents that are closely surrounded by patents held by competitors or potential competitors. As a result, we believe there is a greater likelihood of a patent dispute than would be expected if our patents were not closely surrounded by other patents. The defense and prosecution, if necessary, of intellectual property suits, interference proceedings and related legal and administrative proceedings would be costly and divert our technical and management personnel from their normal responsibilities. We may not prevail in any of these suits. An adverse determination of any litigation or defense proceedings could put our patents at risk of being invalidated or interpreted narrowly and could put our patent applications at risk of not issuing.

Furthermore, because of the substantial amount of discovery required in connection with intellectual property litigation, there is a risk that some of our confidential information could be compromised by disclosure during this type of litigation. For example, during the course of this kind of litigation, there could be public announcements of the results of hearings, motions or other interim proceedings or developments in the litigation. Securities analysts or investors may perceive these announcements to be negative, which could cause the market price of our stock to decline.

Our success will depend partly on our ability to operate without infringing on or misappropriating the intellectual property rights of others.

We may be sued for infringing on the intellectual property rights of others, including the patent rights, trademarks and trade names of third parties. Intellectual property litigation is costly and the outcome is uncertain. If we do not prevail in any intellectual property litigation, in addition to any damages we might have to pay, we could be required to stop the infringing activity, or obtain a license to or design around the intellectual property in question. If we are unable to obtain a required license on acceptable terms, or is unable to design around any third party patent, we may be unable to sell some of our products and services, which could result in reduced revenue.

We are dependent upon our licensed technologies and may need to obtain additional licenses in the future to offer our products and remain competitive.

We have licensed key components of our technologies from third parties. While we do not currently derive a material portion of our revenue from products that depend on these licensed technologies, we may in the future. If our license agreements were to terminate prematurely or if we breach the terms of any licenses or otherwise fail to maintain our rights to these technologies, we may lose the right to manufacture or sell our products that use these licensed

technologies. In addition, we may need to obtain licenses to additional technologies in the future in order to keep our products competitive. If we fail to license or otherwise acquire necessary technologies, we may not be able to develop new products that we need to remain competitive.

Many of our current and potential customers are from the pharmaceutical and biotechnology industries and are subject to risks faced by those industries.

We derive a substantial portion of our revenues from pharmaceutical and biotechnology companies. We expect that pharmaceutical and biotechnology companies will continue to be our major source of revenues for the foreseeable future. As a result, we are subject to risks and uncertainties that affect the pharmaceutical and biotechnology industries, such as pricing pressures as third-party payers continue challenging the pricing of medical products and services, government regulation, ongoing consolidation and uncertainty of technological change, and to reductions and delays in research and development expenditures by companies in these industries. In particular, several proposals are being contemplated by lawmakers in the United States to extend the Federal Medicare program to include reimbursement for prescription drugs. Many of these proposals involve negotiating decreases in prescription drug prices or imposing price controls on prescription drugs. If appropriate reimbursement cannot be obtained, it could result in customers purchasing fewer products from us as they reduce their research and development expenditures.

In particular, the biotechnology industry has been faced with declining market capitalization and a difficult capital-raising and financing environment. If biotechnology companies are unable to obtain the financing necessary to purchase our products, our business and results of operations could be materially adversely affected. As it relates to the pharmaceutical industry, several companies have significant patents that have expired or are about to expire, which could result in reduced revenues for those companies. If pharmaceutical companies suffer reduced revenues as a result of these patent expirations, they may be unable to purchase our products, and our business and results of operations could be materially adversely affected.

In addition, we are dependent, both directly and indirectly, upon general health care spending patterns, particularly in the research and development budgets of the pharmaceutical and biotechnology industries, as well as upon the financial condition and purchasing patterns of various governments and government agencies. Many of our customers, including universities, government research laboratories, private foundations and other institutions, obtain funding for the purchase of products from grants by governments or government agencies. There exists the risk of a potential decrease in the level of governmental spending allocated to scientific and medical research which could substantially reduce or even eliminate these grants. If government funding necessary to purchase our products were to decrease, our business and results of operations could be materially adversely affected.

If we are unable to achieve and sustain market acceptance of our target validation, high-throughput screening, assay development and ADMET screening products across their broad intended range of applications, we will not generate expected revenue growth and could adversely affect profits.

Our business strategy depends, in part, on successfully developing and commercializing our ADMET screening, molecular biology, high-throughput/high-content screening, and genomics, proteomics and high-throughput screening to meet customers' expanding needs and demands, an example of which is the COPAS technology obtained from the 2001 acquisition of Union Biometrica. Market acceptance of this and other new products will depend on many factors, including the extent of our marketing efforts and our ability to demonstrate to existing and potential customers that our technologies are superior to other technologies or techniques and products that are available now or may become available in the future. If our new products do not gain market acceptance, or if market acceptance occurs at a slower rate than anticipated, it could materially adversely affect our business and future growth prospects and could result in a goodwill and /or intangible impairment loss.

If Amersham Biosciences terminates its distribution agreements with us 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.

For the three months ended March 31, 2004, approximately 19% of our revenues were generated through two distribution agreements with Amersham Biosciences. The first distribution agreement was renegotiated in August 2001. Under this agreement, Amersham Biosciences acts as the primary marketing and distribution channel for the products of our Biochrom subsidiary and, as a result, we are restricted from allowing another person or entity to distribute, market and sell the majority of the products of our Biochrom subsidiary. We are also restricted from making or promoting sales of the majority of the products of our Biochrom subsidiary to any person or entity other than Amersham Biosciences or its authorized sub-distributors. We have little or no control over Amersham Biosciences' marketing and sales activities or the use of its resources. Amersham Biosciences may fail to purchase sufficient quantities of products from us or perform appropriate marketing and sales activities. The failure by Amersham Biosciences to perform these activities could materially adversely affect our business and growth prospects during the term of this agreement. In addition, our inability to maintain our arrangement with Amersham Biosciences for product distribution could materially impede the growth of our business and our ability to generate sufficient revenue. Our agreement with Amersham Biosciences may be terminated with 30 days notice under certain circumstances. This agreement has an initial term of three years, commencing August 1, 2001, after which it will automatically renew for an additional two years, unless terminated earlier by either party. In addition, the agreement may be terminated in accordance with its terms by either party upon 18 months prior written notice.

The second distribution agreement, between Hoefer, Inc., our subsidiary, and Amersham Biosciences was entered into in November 2003

in connection with our acquisition of certain assets of Amersham Biosciences, including the Hoefer name. The agreement provides that Hoefer will be the exclusive supplier of 1-D gel electrophoresis products to Amersham Biosciences. Hoefer also has the right to develop, manufacture and market 2-D gel electrophoresis products, which would be offered to Amersham Biosciences for sale under the Amersham Biosciences brand name. Hoefer has the right to sell any of its products, under the Hoefer brand name or any other non-Amersham Biosciences brand name, through other distribution channels, both direct and indirect. The initial term of the agreement is five years with an automatic five year renewal period. Amersham Biosciences may terminate the agreement during the renewal period if they decide to cease all activities in 1-D gel electrophoresis or if Hoefer fails to deliver new 1-D gel electrophoresis products.

General Electric recently acquired Amersham plc, the parent of Amersham Biosciences. While General Electric has indicated its intention to continue Amersham's presence in the life science market, and we believe our relationship with Amersham Biosciences is good, we cannot guarantee that the distribution agreements will be renewed, that Amersham Biosciences will aggressively market our products in the future or that General Electric will continue the partnership.

Accounting for goodwill may have a material adverse effect on us.

We have historically amortized goodwill purchased in our acquisitions on a straight-line basis ranging from five to 15 years. Upon the adoption of SFAS No. 142, goodwill and intangible assets with indefinite lives from acquisitions after June 30, 2001 and existing goodwill and intangible assets with indefinite lives from acquisitions prior to July 1, 2001 that remain as of December 31, 2001 are no longer amortized, but instead are evaluated annually to determine whether any portion of the remaining balance of goodwill and indefinite lived intangibles may not be recoverable, or more frequently, if events or circumstances indicate there may be an impairment. If it is determined in the future that a portion of our goodwill and intangible assets with indefinite lives is impaired, we will be required to write off that portion of the asset which could have an adverse effect on net income for the period in which the write off occurs. At March 31, 2004, we had goodwill and intangible assets with indefinite lives of \$38.6 million, or 28% of our total assets. If our accounting estimates are not correct, our financial results could be adversely affected. Management judgment and estimates are necessarily required in the application of our Critical Accounting Policies. We discuss these estimates in the subsection entitled Critical Accounting Policies beginning on page 14. If our estimates are incorrect, our future financial operating results and financial condition could be adversely affected.

Specifically, as we review the operations of our genomics, proteomics and high-throughput high-screening product lines we may determine that our estimates for any related definite lived intangibles may be incorrect and as a result we may incur charges for impairment which may adversely impact our results of operation.

We may be adversely affected by litigation or arbitration involving Paul D. Grindle.

On February 4, 2002, Paul D. Grindle, the former owner of Harvard Apparatus, Inc., initiated an arbitration proceeding against us and certain directors before JAMS in Boston, Massachusetts. Mr. Grindle's claims arise out of post-closing purchase price adjustments related to our purchase of the assets and business of Harvard Apparatus by virtue of an Asset Purchase Agreement dated March 15, 1996 and certain related agreements. In the arbitration demand, Mr. Grindle sought the return of 1,563,851 shares of our common stock, or the disgorgement of the profits of our sale of the stock, as well as compensatory damages and multiple damages and attorney's fees under Mass. Gen. Laws, chapter 93A. In a demand letter that was attached to the arbitration demand, Mr. Grindle asserted losses in the amount of \$15 million, representing the value of the 1,563,851 shares of our common stock as of January 2, 2002. On October 30, 2002, we received a decision from the arbitrator that we had prevailed on all claims asserted against us and certain of our directors in the arbitration action. Specifically, we received a written decision from the arbitrator granting our motion for summary disposition with respect to all claims brought against all parties in the action. We filed a complaint in the Massachusetts Superior Court seeking to confirm the arbitrator's decision. Mr. Grindle filed a complaint in the Massachusetts Superior Court seeking to vacate the arbitrator's decision. These two matters were consolidated. On or about July 30, 2003, the Massachusetts Superior Court granted our motion to confirm the arbitrator's decision and to deny Mr. Grindle's motion to vacate. Mr. Grindle has filed a notice of appeal with the Massachusetts Appeals Court. Both Mr. Grindle and the Company have filed briefs with the Massachusetts Appeals Court. The matter is pending. Mr. Grindle also filed an application for direct appellate review with the Massachusetts Supreme Judicial Court, which was denied.

Customer, vendor and employee uncertainty about the effects of any of our acquisitions could harm us.

We and the acquired companies' customers may, in response to the consummation of the acquisitions, delay or defer purchasing decisions. Any delay or deferral in purchasing decisions by customers could adversely affect our business. Similarly, employees of acquired companies may experience uncertainty about their future role until or after we execute our strategies with regard to employees of acquired companies. This may adversely affect our ability to attract and retain key management, sales, marketing and technical personnel following an acquisition.

A significant portion of the sales cycle for our products is lengthy and we may spend significant time on sales opportunities with no assurance of success.

Our ability to obtain customers for our products, specifically for products made by Union Biometrica and Genomic Solutions, depends in significant part upon the perception that our products can help accelerate drug discovery and development efforts. The sales cycle for these systems is typically between three and six months due to the education effort that is required. Our sales efforts often require sales presentations to various departments within a single customer, including research and development personnel and key management. In addition, we may be required to negotiate agreements containing terms unique to each customer. We may expend substantial funds and management effort with no assurance that we will successfully sell our systems or products to the customer.

Ethical concerns surrounding the use of our products and misunderstanding of the nature of our business could adversely affect our ability to develop and sell our existing products and new products.

Genetic screening of humans is used to determine individual predisposition to medical conditions. Genetic screening has raised ethical issues regarding the confidentiality and appropriate uses of the resulting information. Government authorities may regulate or prohibit the use of genetic screening to determine genetic predispositions to medical conditions. Additionally, the public may disfavor and reject the use of genetic screening.

Genomic and proteomic research is used to determine the role of genes and proteins in living organisms. Our products are designed and used for genomic and proteomic research and drug discovery and cannot be used for genetic screening without significant modification. However, it is possible that government authorities and the public may fail to distinguish between the genetic screening of humans and genomic and proteomic research. If this occurs, our products and the processes for which our products are used may be subjected to government regulations intended to affect genetic screening. Further, if the public fails to distinguish between the two fields, it may pressure our customers to discontinue the research and development initiatives for which our products are used.

Additionally, some of our products may be used in areas of research involving cloning, stem cell use, organ transplants and other techniques presently being explored in the drug discovery industry. These techniques have drawn much negative attention recently in the public forum and could face similar risks to those identified above surrounding products for genomic and proteomic research.

Our stock price has fluctuated in the past and could experience substantial declines in the future and, as a result, management's attention may be diverted from more productive tasks.

The market price of our common stock has experienced significant fluctuations since its initial public offering in December 2000 and may become volatile and could decline in the future, perhaps substantially, in response to various factors, many of which are beyond our control, including:

- technological innovations by competitors or in competing technologies,
- revenues and operating results fluctuating or failing to meet the expectations of securities analysts or investors in any quarter,
- termination or suspension of equity research coverage by securities' analysts,
- comments of securities analysts and mistakes by or misinterpretation of comments from analysts,
- downward revisions in, or failure to achieve, securities analysts' estimates or management guidance,
- investment banks and securities analysts may themselves be subject to suits that may adversely affect the perception of the market,
- conditions or trends in the biotechnology and pharmaceutical industries,
- announcements of significant acquisitions or financings or changes in strategic partnerships, and
- a decrease in the demand for our common stock.

In addition, the stock market and the Nasdaq National Market in general, and the biotechnology industry and small cap markets in particular, have experienced significant price and volume fluctuations that at times may have been unrelated or disproportionate to the operating performance of those companies. These broad market and industry factors may seriously harm the market price of our common

stock, regardless of our operating performance. In the past, securities class action litigation has often been instituted following periods of volatility in the market price of a company's securities. A securities class action suit against us could result in substantial costs, potential liabilities and the diversion of management's attention and resources.

Provisions of Delaware law and of our charter and bylaws may make a takeover more difficult which could cause our stock price to decline.

Provisions in our certificate of incorporation and bylaws and in the Delaware corporate law may make it difficult and expensive for a third party to pursue a tender offer, change in control or takeover attempt which is opposed by management and the board of directors. Public stockholders who might desire to participate in such a transaction may not have an opportunity to do so. We also have a staggered board of directors that makes it difficult for stockholders to change the composition of the board of directors in any one year. These anti-takeover provisions could substantially impede the ability of public stockholders to change our management and board of directors. Such provisions may also limit the price that investors might be willing to pay for shares of our common stock in the future.

An active trading market for our common stock may not be sustained.

Although our common stock is quoted on the Nasdaq National Market, an active trading market for the shares may not be sustained.

Future issuance of preferred stock may dilute the rights of our common stockholders.

Our board of directors has the authority to issue up to 5,000,000 shares of preferred stock and to determine the price, privileges and other terms of these shares. The board of directors may exercise this authority without any further approval of stockholders. The rights of the holders of common stock may be adversely affected by the rights of future holders of preferred stock.

Cash dividends will not be paid on our common stock.

We intend to retain all of our earnings to finance the expansion and development of our business and do not anticipate paying any cash dividends in the foreseeable future. As a result, capital appreciation, if any, of our common stock will be a stockholder's sole source of gain for the foreseeable future.

The merger with Genomic Solutions may fail to qualify as a reorganization for federal income tax purposes, resulting in the recognition of taxable gain or loss in respect of our treatment of the merger as a taxable sale.

Both us and Genomic Solutions intended the merger to qualify as a reorganization within the meaning of Section 368(a) of the Internal Revenue Code of 1986, as amended. Although the Internal Revenue Service, or IRS, will not provide a ruling on the matter, Genomic Solutions obtained a legal opinion from its tax counsel that the merger constitutes a reorganization for federal income tax purposes. This opinion does not bind the IRS or prevent the IRS from adopting a contrary position. If the merger fails to qualify as a reorganization, the merger would be treated as a deemed taxable sale of assets by Genomic Solutions for an amount equal to the merger consideration received by Genomic Solutions' stockholders plus any liabilities assumed by us. As successor to Genomic Solutions, we would be liable for any tax incurred by Genomic Solutions as a result of this deemed asset sale.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

We manufacture and test the majority of products in locations throughout the United States, the United Kingdom and Germany. We sell our products globally through our direct catalog sales and indirect distributor channel. 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 continue to evaluate currency risks and we may enter into foreign exchange contracts from time to time to mitigate foreign currency exposure.

As of March 31, 2004, we had \$19.4 million in long term debt for amounts drawn against our revolving credit facility. A 10% change in interest rates, from 4% to 4.4%, would change the annual interest expense on this long term debt by approximately \$77,000.

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. In designing and evaluating our disclosure controls and procedures, we and our management recognize that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving the desired control objectives, and our management necessarily was required to apply its judgment in evaluating and implementing possible controls and procedures. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer have concluded that they believe that our disclosure controls and procedures are reasonably effective to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the Securities and Exchange Commission's rules and forms. We intend to continue to review and document our disclosure controls and procedures, and our internal control over financial reporting, on an ongoing basis, and may from time to time make changes aimed at enhancing their effectiveness and to ensure that our systems evolve with our business. There were no changes in our internal control over financial reporting that occurred during the quarter ended March 31, 2004 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings.

On February 4, 2002, Paul D. Grindle, the former owner of Harvard Apparatus, Inc., initiated an arbitration proceeding against us and certain directors before JAMS in Boston, Massachusetts. Mr. Grindle's claims arise out of post-closing purchase price adjustments related to our purchase of the assets and business of Harvard Apparatus by virtue of an Asset Purchase Agreement dated March 15, 1996 and certain related agreements. In the arbitration demand, Mr. Grindle sought the return of 1,563,851 shares of common stock in Harvard Bioscience, or the disgorgement of the profits of our sale of the stock, as well as compensatory damages and multiple damages and attorney's fees under Mass. Gen. Laws, chapter 93A. In a demand letter that was attached to the arbitration demand, Mr. Grindle asserted losses in the amount of \$15 million, representing the value of the 1,563,851 shares of Harvard Bioscience's common stock as of January 2, 2002. On October 30, 2002, we received a decision from the arbitrator that we have prevailed on all claims asserted against us and certain of our directors in the arbitration action. Specifically, we received a written decision from the arbitrator granting our motion for summary disposition with respect to all claims brought against all parties in the action. The Company filed a complaint in the Massachusetts Superior Court seeking to confirm the arbitrator's decision. Mr. Grindle filed a complaint in the Massachusetts Superior Court seeking to vacate the arbitrator's decision. These two matters were consolidated. On or about July 30, 2003, the Massachusetts Superior Court granted our motion to confirm the arbitrator's decision and to deny Mr. Grindle's motion to vacate. Mr. Grindle filed a notice of appeal with the Massachusetts Appeals Court. Both Mr. Grindle and the Company have filed briefs with the Massachusetts Appeals Court. The matter is pending. Mr. Grindle also filed an application for direct appellate review with the Massachusetts Supreme Judicial Court, which was denied.

In addition, from time to time, we may be involved in various claims and legal proceedings arising in the ordinary course of business. Except as disclosed above, we are not currently a party to any such claims or proceedings, which, if decided adversely to us, would either individually or in the aggregate have material adverse effect on our business, financial condition or results of operations.

Item 2. Changes in Securities, Use of Proceeds and Issuer Purchases of Equity Securities.

On November 12, 2002, the Board of Directors authorized the Company to repurchase up to \$5 million of its outstanding common stock. To date, the Company has not made any purchases of its common stock.

Item 3. Defaults Upon Senior Securities - None.

Item 4. Submission of Matters to a Vote of Security Holders - None.

Item 5. Other Information - None.

There were no material changes to the procedures by which security holders may recommend nominees to the Company's Board of Directors since the disclosure provided in the Company's Proxy Statement filed April 26, 2004.

Item 6. Exhibits and Reports on Form 8-K.

(a) Exhibit Index

- | | |
|-------|--|
| 2.1** | Stock Purchase Agreement, dated as of March 3, 2004, by and among Harvard Bioscience, Inc., KD Scientific, Inc., and Ken Dunne. |
| 31.1 | Certification of Chief Financial Officer of Harvard Bioscience, Inc., pursuant to Rules 13a-15(e) and 15d-15(e), 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-15(e) and 15d-15(e), 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 |

- * 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.
- ** Previously filed as an exhibit to the Company's Current Report on Form 8-K (filed March 18, 2004) and incorporated by reference thereto.
- (b) Reports on Form 8-K
1. Form 8-K filed March 3, 2004 furnishing the press release of Harvard Bioscience issued on March 2, 2004, announcing its financial results for the year and quarter ended December 31, 2003.
 2. Form 8-K filed March 18, 2004 announcing the acquisition of KD Scientific, Inc. on March 3, 2004.
 3. Form 8-K filed May 6, 2004 furnishing the press release of Harvard Bioscience issued on May 6, 2004 announcing its financial results for the quarter ended March 31, 2004.

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: Chane Graziano
Chief Executive Officer

By: Susan Luscinski
Chief Financial Officer

Date: July 8, 2004

Certification

I, Susan Luscinski, certify that:

1. I have reviewed this amended quarterly report on Form 10-Q/A 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)) 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. [Omitted pursuant to SEC Release Nos. 33-8238 and 34-47986];
 - 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: July 8, 2004

Susan Luscinski
Chief Financial Officer

Certification

I, Chane Graziano, certify that:

1. I have reviewed this amended quarterly report on Form 10-Q/A 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)) 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. [Omitted pursuant to SEC Release Nos. 33-8238 and 34-47986];
 - 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 reasonable 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: July 8, 2004

Chane Graziano
Chief Executive Officer

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

The undersigned officer of Harvard Bioscience, Inc. (the "Company") hereby certifies that the Company's amended quarterly report on Form 10-Q/A for the quarterly period ended March 31, 2004 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: July 8, 2004

Name: Susan Luscinski
Title: Chief Financial Officer

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

The undersigned officer of Harvard Bioscience, Inc. (the "Company") hereby certifies that the Company's amended quarterly report on Form 10-Q/A for the quarterly period ended March 31, 2004 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: July 8, 2004

Name: Chane Graziano
Title: Chief Executive Officer
