HARVARD BIOSCIENCE INC Form S-4/A September 17, 2002

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As filed with the Securities and Exchange Commission on September 17, 2002 Registration No. 333-98927

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

AMENDMENT NO. 1 TO FORM S-4

REGISTRATION STATEMENT UNDER

THE SECURITIES ACT OF 1933

HARVARD BIOSCIENCE, INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware

(State or Other Jurisdiction of Incorporation or Organization)

3826 (Primary Standard Industrial Classification Code Number) 84 October Hill Road Holliston, Massachusetts 01746

04-3306140 (I.R.S. Employer Identification Number)

(508) 893-8999

(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal Executive Offices)

Chane Graziano Chief Executive Officer Harvard Bioscience, Inc. 84 October Hill Road Holliston, Massachusetts 01746 (508) 893-8999

(Name, Address, Including Zip Code, and Telephone Number, Including Area Code, of Agent For Service)

Copies to:

H. David Henken, P.C. **Goodwin Procter LLP Exchange Place** Boston, Massachusetts 02109 (617) 570-1000

Peter Sugar, Esq. Joel Alam, Esq. Jaffe, Raitt, Heuer & Weiss, P.C. **One Woodward Avenue, Suite 2400** Detroit, Michigan 48226 (313) 961-8380

Approximate date of commencement of proposed sale of the securities to the public: As soon as possible after the effective date of this registration statement and the consummation of the merger described in this registration statement.

If the securities being registered on this form are being offered in connection with the formation of a holding company and there is compliance with General Instruction G, check the following box. o

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

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

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

GENOMIC SOLUTIONS INC. 4355 Varsity Drive, Suite E Ann Arbor, Michigan 48108

Dear Stockholders:

The Board of Directors of Genomic Solutions Inc. has adopted and approved an agreement and plan of merger, dated as of July 17, 2002, which provides for the merger of Genomic Solutions with and into HAG Acq. Corp., a wholly-owned subsidiary of Harvard Bioscience, Inc. If the merger is completed, each outstanding share of Genomic Solutions common stock will be converted into the right to receive a combination of Harvard Bioscience common stock and cash. The aggregate purchase price for all of the outstanding shares of Genomic Solutions common stock and \$9,000,000 in cash, subject to adjustment in limited circumstances. The per share conversion ratio for Genomic Solutions common stock and the per share cash consideration will be determined based on the number of shares of Genomic Solutions common stock outstanding at the completion of the merger. Based on the number of outstanding shares of Genomic Solutions common stock and the per share cash consideration will be determined based on the number of shares of Genomic Solutions common stock outstanding at the completion of the merger. Based on the number of outstanding shares of Genomic Solutions common stock outstanding at the completion scommon stock as of September 16, 2002 are exercised prior to the merger, each share of Genomic Solutions common stock would be exchanged for approximately 0.1016 of a share of Harvard Bioscience common stock and \$0.2858 in cash. These per share amounts are estimates, however, and may change at the completion of the merger as a result of, among other things, an increase in the number of Genomic Solutions shares of common stock outstanding on the date the merger is completed. You will also receive cash, without interest, rather than a fractional share of Harvard Bioscience common stock that you otherwise would be entitled to receive in the merger.

Harvard Bioscience common stock is traded on the Nasdaq National Market under the trading symbol "HBIO," and on September 16, 2002, the closing price of Harvard Bioscience common stock was \$4.87 per share.

Stockholders of Genomic Solutions will be asked at a special meeting to adopt and approve the merger agreement and approve the merger. The special meeting for Genomic Solutions stockholders will be held on October 24, 2002, at 9:00 a.m., local time, at The Crowne Plaza Hotel, 610 Hilton Boulevard, Ann Arbor, Michigan 48108.

This proxy statement and prospectus provides you with detailed information concerning the merger agreement, the merger, Genomic Solutions and Harvard Bioscience. You are encouraged to read and consider carefully this proxy statement and prospectus in its entirety. In particular, you should carefully consider the discussion in the section entitled "Risk Factors" beginning on page 21 of this proxy statement and prospectus. You may also obtain more information about Harvard Bioscience and Genomic Solutions from documents that each of us has filed with the Securities and Exchange Commission.

The Genomic Solutions board of directors has carefully considered the terms and conditions of the merger and has unanimously determined that the merger is advisable, in the best interests of Genomic Solutions' stockholders and on terms that are fair to Genomic Solutions' stockholders. Accordingly, the board of directors has unanimously approved the merger agreement and the merger and recommends that you vote for adoption and approval of the merger agreement and approval of the merger.

Sincerely,

Jeffrey S. Williams President and Chief Executive Officer

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the merger or the shares of Harvard Bioscience common stock to be issued in the merger, or determined if the proxy statement and prospectus is accurate or adequate. Any representation to the contrary is unlawful.

The proxy statement and prospectus is dated September 17, 2002 and was first mailed to Genomic Solutions stockholders on or about September 20, 2002.

GENOMIC SOLUTIONS INC. 4355 Varsity Drive, Suite E Ann Arbor, Michigan 48108

NOTICE OF SPECIAL MEETING OF STOCKHOLDERS to be held on October 24, 2002

To the Stockholders of Genomic Solutions Inc.:

A special meeting of stockholders of Genomic Solutions Inc. will be held on October 24, 2002, at 9:00 a.m., local time, at The Crowne Plaza Hotel, 610 Hilton Boulevard, Ann Arbor, Michigan 48108, for the following purposes:

1.

To consider and vote on a proposal to adopt and approve the Agreement and Plan of Merger, dated as of July 17, 2002, by and among Harvard Bioscience, Inc., a Delaware corporation, HAG Acq. Corp., a Delaware corporation and a wholly-owned subsidiary of Harvard Bioscience, and Genomic Solutions Inc., a Delaware corporation, a copy of which is attached as Annex A to the accompanying proxy statement and prospectus, and to approve the merger contemplated by the merger agreement.

2.

To transact any other business that may properly come before the special meeting and any adjournment or postponement of the special meeting.

Only stockholders of record of Genomic Solutions common stock at the close of business on September 19, 2002 are entitled to notice of, and will be entitled to vote at, the special meeting or any adjournment or postponement thereof. Adoption and approval of the merger agreement and approval of the merger will require the affirmative vote of the holders of Genomic Solutions common stock representing a majority of the outstanding shares of Genomic Solutions common stock entitled to vote at the special meeting.

Your vote is important. To assure that your shares are represented at the special meeting, you are urged to complete, date and sign the enclosed proxy card and mail it promptly in the postage-paid envelope provided, whether or not you plan to attend the special meeting in person. You may revoke your proxy in the manner described in the accompanying proxy statement and prospectus at any time before it has been voted at the special meeting. If you attend the special meeting you may vote in person even if you returned a proxy.

Genomic Solutions stockholders have the right to dissent from the merger and obtain payment in cash of the fair value of their shares of common stock under applicable provisions of Delaware law. In order to perfect appraisal rights, stockholders must give written demand for appraisal of their shares before the taking of the vote on the merger agreement and the merger at the special meeting and must not vote in favor

of the merger agreement and the merger. A copy of the applicable Delaware statutory provisions is included as Annex C to the accompanying proxy statement and prospectus, and a summary of these provisions can be found under "The Merger and Related Transactions" Dissenters' Rights of Appraisal" beginning on page 87 of the accompanying proxy statement and prospectus.

BY ORDER OF THE BOARD OF DIRECTORS

Jeffrey S. Williams President and Chief Executive Officer

Ann Arbor, Michigan September 20, 2002

Please do not send your stock certificates at this time. If the merger is completed, you will be sent instructions regarding the surrender of your stock certificates.

ADDITIONAL INFORMATION

This proxy statement and prospectus incorporates important business and financial information about Harvard Bioscience and Genomic Solutions from other documents that are not included in or delivered with this proxy statement and prospectus. This information is available to you without charge upon your written or oral request. You can obtain those documents, which are incorporated by reference in this proxy statement and prospectus, by requesting them in writing or by telephone from the appropriate company at the following addresses and telephone numbers:

Harvard Bioscience, Inc.	Genomic Solutions Inc.								
84 October Hill Road	4355 Varsity Drive, Suite E								
Holliston, Massachusetts 01746	Ann Arbor, Michigan 48108								
(508) 893-8999	(734) 975-4800								
Attn: Susan M. Luscinski, Chief Financial Officer	Attn: Gary A. Kendra, Secretary								
If you would like to request documents, you must do so by October 17, 2002 in order to receive them before the special meeting.									

For additional information regarding where you can find information about Harvard Bioscience and Genomic Solutions, please see the section entitled "Where You Can Find Additional Information" beginning on page 140 of this proxy statement and prospectus.

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QUESTIONS AND ANSWERS ABOUT THE MERGER

Q:

Why are Harvard Bioscience and Genomic Solutions proposing to merge? (See pages 56 and 67)

Harvard Bioscience and Genomic Solutions are proposing the merger because they believe the resulting combined organization will be a stronger, more competitive company capable of achieving greater financial strength, operational efficiencies and growth potential than either company could separately achieve. Harvard Bioscience and Genomic Solutions further believe that the merger will provide the opportunity for each company's stockholders to participate in the potential growth of the combined organization following the merger.

Harvard Bioscience and Genomic Solutions believe that the merger will result in a number of benefits, including:

A:

the synergies that could be created in leveraging the sales and marketing functions of Harvard Bioscience and Genomic Solutions;

the synergies that could be created in leveraging the distribution channels of Harvard Bioscience and Genomic Solutions; and

the synergies that could be created in leveraging the research and development strengths of Harvard Bioscience and Genomic Solutions.

Q:

What will I receive in the merger? (See page 67)

A:

If the merger is completed, each Genomic Solutions stockholder will have the right to receive a combination of Harvard Bioscience common stock and cash in exchange for each of his or her shares of Genomic Solutions common stock. The aggregate purchase price for all of the outstanding shares of Genomic Solutions common stock is fixed at 3,200,000 shares of Harvard Bioscience common stock and \$9,000,000 in cash, subject to adjustment in limited circumstances for extraordinary stock events and to preserve the intended tax free nature of the transaction. The per share conversion ratio for Genomic Solutions common stock and the per share cash consideration will be determined based on the number of shares of Genomic Solutions common stock outstanding at the completion of the merger. The manner in which this conversion ratio will be calculated and the amount of cash you will receive as part of the merger consideration is described in this proxy statement and prospectus. Based on the number of outstanding shares of Genomic Solutions common stock as of September 16, 2002, the most recent practicable date prior to the date of this proxy statement and prospectus, and assuming that all in-the-money options to purchase Genomic Solutions common stock as of September 16, 2002 are exercised prior to the merger, each share of Genomic Solutions common stock would be exchanged for approximately 0.1016 of a share of Harvard Bioscience common stock and \$0.2858 in cash. These per share amounts are estimates, however, and may change at the completion of the merger as a result of, among other things, an increase in the number of Genomic Solutions shares of common stock outstanding on the date the merger is completed. You will also receive cash, without interest, rather than a fractional share of Harvard Bioscience common stock that you otherwise would be entitled to receive in the merger.

Q:

Will Genomic Solutions stockholders be able to trade the Harvard Bioscience common stock that they receive in the merger? (See pages 86 and 87)

A:

Yes. The Harvard Bioscience common stock issued in the merger will be registered with the Securities and Exchange Commission and listed on the Nasdaq National Market under the symbol "HBIO." All shares of Harvard Bioscience common stock that you receive in connection with the merger will be freely transferable unless you are deemed to be an affiliate of Genomic

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Solutions prior to the completion of the merger or an affiliate of Harvard Bioscience after the completion of the merger under the Securities Act of 1933, as amended, or your shares are subject to other contractual restrictions. Shares of Harvard Bioscience common stock received by persons deemed to be affiliates in the merger may only be sold in compliance with Rule 145 under the Securities Act or as otherwise permitted under the Securities Act.

Q:

When do Harvard Bioscience and Genomic Solutions expect to complete the merger?

A:

Harvard Bioscience and Genomic Solutions expect to complete the merger when all of the conditions to completion of the merger contained in the merger agreement have been satisfied or waived. Harvard Bioscience and Genomic Solutions are working toward satisfying these conditions and completing the merger as quickly as possible. Harvard Bioscience and Genomic Solutions currently plan to complete the merger in the fourth quarter of 2002 following the special meeting of Genomic Solutions stockholders, assuming the Genomic Solutions stockholders adopt and approve the merger agreement and approve the merger and the other merger conditions are satisfied. However, because the merger is subject to some conditions which are beyond Harvard Bioscience's and Genomic

Solutions' control, the exact timing cannot be predicted.

Q:	
	What happens if the merger is not completed? (See page 82)
A:	If the merger is not completed, each of Genomic Solutions and Harvard Bioscience will continue as independent companies. In addition, under the terms of the merger agreement, Genomic Solutions may be required to pay Harvard Bioscience a termination fee of \$1,300,000 or to reimburse Harvard Bioscience for out-of-pocket expenses, including legal, accounting, printing and other fees, related to this transaction if the merger is not completed for specified reasons discussed in more detail in this proxy statement and prospectus.
Q:	What vote is required to approve the merger? (See page 46)
A:	Adoption and approval of the merger agreement and approval of the merger requires the affirmative vote of the holders of a majority of the outstanding shares of Genomic Solutions common stock as of the record date. Each of the boards of directors of Harvard Bioscience and Genomic Solutions has already approved the merger.
Q:	Are Harvard Bioscience stockholders voting on the merger?
A:	No. Only Genomic Solutions stockholders are voting on the merger.
Q:	How do I vote on the merger? (See page 48)
A:	First, please review the information contained or incorporated by reference in this proxy statement and prospectus, including the annexes, as it contains important information about Genomic Solutions and Harvard Bioscience. It also contains important information about what each of the boards of directors of Genomic Solutions and Harvard Bioscience, respectively, considered in evaluating the merger. Next, complete and sign the enclosed proxy card, and then mail it in the enclosed return envelope as soon as possible so that your shares can be voted at the special meeting of Genomic Solutions' stockholders at which the merger agreement and the merger will be presented and voted upon. You may also attend the special meeting in person and vote at the special meeting instead of submitting a proxy.
Q:	What happens if I don't indicate how to vote my proxy? (See page 48)
A:	If you sign and send in your proxy, but do not include instructions on how to vote your properly signed proxy card, your shares will be voted FOR adoption and approval of the merger agreement and approval of the merger.
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Q:	What happens if I don't return a proxy card? (See page 47)
Δ.	
A:	Not returning your proxy card will have the same effect as voting against adoption and approval of the merger agreement and against approval of the merger.

Q:

Can I change my vote after I have mailed my signed proxy card? (See page 48)

A:

Yes. You can change your vote at any time before your proxy is voted at the special meeting of Genomic Solutions' stockholders at which the merger agreement and merger will be presented and voted upon. You can do this in one of three ways:

first, you can send a written notice to the Secretary of Genomic Solutions stating that you would like to revoke your proxy;

second, you can complete and submit a later-dated proxy card; or

third, you can attend the special meeting and vote in person. Your attendance at the special meeting alone will not revoke your proxy. You must also vote at the special meeting in order to revoke your previously submitted proxy.

You should send any notice of revocation or your completed new proxy card, as the case may be, to Genomic Solutions at the following address:

Genomic Solutions Inc. 4355 Varsity Drive, Suite E Ann Arbor, MI 48108 Attn: Gary A. Kendra, Secretary

Q:

Can I submit my proxy by telephone or over the Internet?

A:

If you hold your shares through a bank or brokerage firm, you may be able to submit your proxy by telephone or over the Internet. You should refer to the proxy card included with your materials for instructions about how to vote. If you vote by telephone or over the Internet, you do not need to complete and mail your proxy card. If you hold shares directly, then you may not vote by telephone or over the Internet.

Q:

If my broker holds my shares in "street name," will my broker vote my shares for me? (See page 48)

A:

No. Your broker will not be able to vote your shares without instructions from you. If you do not provide your broker with voting instructions, your shares may be considered present at the special meeting for purposes of determining a quorum, but will not be considered to have been voted in favor of adoption and approval of the merger agreement or approval of the merger and therefore will have the effect of a vote against the merger agreement and against the approval of the merger. If you have instructed a broker to vote your shares and wish to change your vote, you must follow directions received from your broker to change those instructions.

Q:

Should I send my stock certificates now? (See page 69)

A:

No. If the merger is completed, Harvard Bioscience will send you written instructions for exchanging your Genomic Solutions stock certificates for Harvard Bioscience stock certificates and cash. In the meantime, you should retain your certificates as the Genomic Solutions stock certificates are still valid. Please do not send in your stock certificates with your proxy. If you send your stock certificates to either Harvard Bioscience or Genomic Solutions, neither Harvard Bioscience nor Genomic Solutions will assume the risk of loss.

Q:

Am I entitled to appraisal rights? (See pages 48 and 87)

A:

Holders of Genomic Solutions common stock are entitled to appraisal rights under Section 262 of the Delaware General Corporation Law.

Q:

Are there risks I should consider in deciding whether to vote for the merger?

A:

Yes. In the section entitled "Risk Factors" beginning on page 21 of this proxy statement and prospectus, Genomic Solutions and Harvard Bioscience have described a number of risk factors that you

should consider in connection with the merger.

Q:

What are the tax consequences to me of the merger? (See page 84)

A:

In general, you will recognize capital gain, but not any loss, on the exchange of your Genomic Solutions common stock for Harvard Bioscience common stock and cash to the extent of the lesser of the cash received and the gain realized in the exchange. This tax treatment may not apply to all Genomic Solutions stockholders. You should consult with your own tax advisor for a full understanding of the merger's tax consequences that are specific to you.

Q:

Who can help answer my questions about the merger?

A:

You may call Gary A. Kendra, the Secretary of Genomic Solutions, at (734) 975-4800, with any questions you may have about the merger.

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SUMMARY

The following is a summary of the information contained in this proxy statement and prospectus. This summary may not contain all of the information that is important to you. You should carefully read this entire proxy statement and prospectus and the other documents referred to for a more complete understanding of the merger and related transactions. In particular, you should read the annexes attached to this proxy statement and prospectus, including the merger agreement and the form of voting agreement, which are attached to this proxy statement and prospectus as Annexes A and D, respectively. In addition, Harvard Bioscience incorporates by reference into this proxy statement and prospectus important business and financial information. You may obtain the information incorporated by reference into this proxy statement and prospectus without charge by following the instructions in the section entitled "Where You Can Find Additional Information" beginning on page 140 of this proxy statement and prospectus.

Parties to the Merger

HARVARD BIOSCIENCE, INC. 84 October Hill Road Holliston, Massachusetts 01746 www.harvardbioscience.com

Harvard Bioscience is a global provider of innovative, research enabling tools that solve problems in drug discovery. Harvard Bioscience provides a broad array of tools designed to accelerate the speed and to reduce the cost at which its customers can introduce new drugs. Harvard Bioscience focuses on alleviating bottlenecks in the drug discovery process including target validation, assay development and ADMET (absorption, distribution, metabolism, elimination and toxicology) screening.

To address these critical bottlenecks, Harvard Bioscience has several innovative proprietary tools. For target validation, these tools include novel pipette tips, micro-dialyzers, plate readers and COPAS high throughput/high relevance model organism screening systems. For ADMET screening, these tools include NaviCyte diffusion chambers for drug absorption testing, 96 well equilibrium dialysis plates for drug distribution testing, and COPAS high throughput/high relevance model organism toxicology testing systems. Harvard Bioscience also has an established product base in target validation and ADMET screening. For target validation, this product base consists of DNA/RNA/protein calculators, life science spectrophotometers and amino acid analysis systems. For ADMET screening, this product base includes precision infusion pumps, organ

testing systems, ventilators, cell biology and electrophysiology products.

A key element of Harvard Bioscience's strategy to become the leading provider of innovative, enabling technologies and products for target validation and screening research in the drug discovery process is to acquire businesses that it believes will either strengthen its core business or provide major breakthroughs for drug discovery research.

The company was organized as a Massachusetts corporation in 1996 in connection with the purchase by the current management team of a portion of the assets of Harvard Apparatus, Inc., a business which, with its predecessors, had been in existence since 1901. Harvard Bioscience was reincorporated in Delaware in November 2000.

HAG Acq. Corp. is a newly formed Delaware corporation and a wholly-owned subsidiary of Harvard Bioscience. HAG Acq. Corp. was formed solely to effect the merger and has not conducted any business during any period of its existence.

GENOMIC SOLUTIONS INC. 4355 Varsity Drive, Suite E Ann Arbor, Michigan 48108 www.genomicsolutions.com

Genomic Solutions develops, manufactures and sells instruments, consumables and software for the life sciences research and drug discovery markets. Its market focus is based on three key areas: genomics, proteomics and microscale liquid handling. These areas comprise three of the major technologies used by researchers in studying disease and developing new drugs.

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Genomic Solutions' products allow researchers to perform high volume experiments, and analyze the resultant data, at lower costs and in less time than with traditional techniques. Genomic Solutions' products are distributed and sold to pharmaceutical and biotechnology companies, government agencies, academic institutions and private research organizations throughout the world.

Genomic Solutions' predecessor, B.I. Systems Corporation, was established in 1994 to acquire a gel electrophoresis imaging and analysis product line from Millipore Corporation used to document and analyze one-dimensional separation of DNA and proteins. In 1997, a new management team redirected the company's efforts to the growing genomic and proteomic markets. In December 1997, the company changed its name to Genomic Solutions Inc.

Voting Requirements for the Merger (See page 46)

In order to complete the merger, the holders of a majority of the outstanding shares of Genomic Solutions common stock as of the record date must vote to adopt and approve the merger agreement and approve the merger. Each share of Genomic Solutions common stock will be entitled to one vote per share. As a result, you will be entitled to cast one vote per share of Genomic Solutions common stock you owned as of September 19, 2002, the record date for the Genomic Solutions special meeting at which the merger agreement and the merger will be presented and voted upon.

Harvard Bioscience stockholders are not required to vote on the merger agreement or the merger.

Share Ownership of Management (See page 46)

As of the close of business on September 16, 2002, the most recent practicable date prior to the date of this proxy statement and prospectus, directors and officers of Genomic Solutions (and their respective affiliates) collectively owned approximately 38% of the outstanding shares of Genomic Solutions common stock entitled to vote at the special meeting on the merger agreement and the merger. All of the directors and certain of their affiliates and certain executive officers, who as of September 16, 2002 collectively owned approximately 38% of the outstanding shares of Genomic Solutions common stock entitled to vote at the special meeting, have entered into voting agreements with Harvard Bioscience under which they have agreed, among other things, to vote their shares of Genomic Solutions common stock in favor of adoption and approval of the merger.

Genomic Solutions' Reasons for the Merger (See page 56)

Genomic Solutions' board of directors consulted with senior management and Genomic Solutions' financial and legal advisors and considered a number of factors, including those set forth below, in reaching its decision to approve the merger agreement and the transactions contemplated by the merger agreement, and to recommend that Genomic Solutions stockholders vote FOR adoption and approval of the merger agreement and approval of the merger.

the relative value of the consideration to be received by Genomic Solutions stockholders compared to the historical and recent market prices of Genomic Solutions common stock;

the fairness opinion of Genomic Solutions' financial advisor, U.S. Bancorp Piper Jaffray;

Genomic Solutions' prospects of remaining independent;

the possible effect of the merger on its employees, customers and current facilities;

the ability of Genomic Solutions to respond to a superior acquisition proposal from a third party, in some circumstances, subject to the possible payment of a termination fee;

the limited nature of the closing conditions included in the merger agreement; and

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the relative liquidity of Harvard Bioscience common stock compared to Genomic Solutions common stock.

The foregoing discussion of the information and factors considered by Genomic Solutions' board of directors, while not exhaustive, includes the material factors considered by the Genomic Solutions board of directors. In view of the variety of factors considered in connection with its evaluation of the merger, Genomic Solutions' board of directors did not find it practicable to, and did not, quantify or otherwise assign relative or specific weight or values to any of these factors, and individual directors may have given different weights to different factors.

Recommendation of Genomic Solutions' Board of Directors (See page 58)

After careful consideration, Genomic Solutions' board of directors unanimously determined that the merger is advisable, in the best interests of Genomic Solutions stockholders and on terms that are fair to the stockholders of Genomic Solutions. Accordingly, Genomic Solutions' board of directors unanimously approved the merger agreement and the merger and recommends that you vote FOR adoption and approval of the merger.

Opinion of Genomic Solutions' Financial Advisor (See page 58)

In deciding to approve the merger, the Genomic Solutions board of directors considered an opinion from its financial advisor, U.S. Bancorp Piper Jaffray Inc. On July 16, 2002, Piper Jaffray delivered its written opinion to the board of directors of Genomic Solutions that, as of the date of such opinion, the merger consideration set forth in the merger agreement was fair, from a financial point of view, to the holders of Genomic Solutions common stock.

The full text of the Piper Jaffray written opinion is attached to this proxy statement and prospectus as Annex B. We encourage you to read the opinion carefully as well as the section of this proxy statement and prospectus entitled "Consideration of the Merger by Genomic Solutions' Board of Directors Opinion of Genomic Solutions' Financial Advisor." The opinion of Piper Jaffray does not constitute a recommendation as to how any holder of Genomic Solutions stock should vote with respect to the merger agreement and the merger.

Interests of Genomic Solutions' Directors and Executive Officers in the Merger (See page 64)

Some of Genomic Solutions' directors and officers have interests in the merger that are different from, or in addition to, those of Genomic Solutions stockholders generally. For instance, the merger agreement provides certain directors and officers of Genomic Solutions with

continuing indemnification rights and change in control payments. Genomic Solutions' board of directors was aware of these interests and considered them, among other matters, when it approved the merger agreement and the merger.

Voting Agreements of Directors and Certain Executive Officers (See page 90)

Directors and certain of their affiliates and certain executive officers of Genomic Solutions who held an aggregate of approximately 38% of Genomic Solution's total outstanding shares of common stock on July 17, 2002 have agreed to vote their shares in favor of the merger agreement and the merger.

Structure and Effects of the Merger (See page 67)

At the completion of the merger, Genomic Solutions will merge with and into HAG Acq. Corp. and HAG Acq. Corp. will survive as a wholly-owned subsidiary of Harvard Bioscience.

As a result of the merger, each outstanding share of Genomic Solutions common stock will be converted into the right to receive a combination of Harvard Bioscience common stock and cash. The aggregate purchase price for all of the outstanding shares of Genomic Solutions common stock is fixed at 3,200,000 shares of Harvard Bioscience common stock and \$9,000,000 in cash, subject to adjustment in limited circumstances for extraordinary stock events and to preserve the intended tax free nature of the transaction. The per share conversion ratio for Genomic Solutions common

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stock and the per share cash consideration will be determined based on the number of shares of Genomic Solutions common stock outstanding at the completion of the merger. The manner in which this conversion ratio will be calculated and the amount of cash you will receive as part of the merger consideration is described in this proxy statement and prospectus. Based on the number of outstanding shares of Genomic Solutions common stock on September 16, 2002, the most recent practicable date prior to the date of this proxy statement and prospectus, and assuming that all in-the-money options to purchase Genomic Solutions common stock as of September 16, 2002 are exercised prior to the merger, each share of Genomic Solutions common stock would be exchanged for approximately 0.1016 of a share of Harvard Bioscience common stock and \$0.2858 in cash. These per share amounts are estimates, however, and may change at the completion of the merger as a result of, among other things, an increase in the number of Genomic Solutions shares of common stock outstanding on the date the merger is completed. You will also receive cash, without interest, rather than a fractional share of Harvard Bioscience common stock that you otherwise would be entitled to receive in the merger.

At the completion of the merger, holders of Genomic Solutions common stock will hold shares of Harvard Bioscience common stock. As a result, the rights of these holders following the merger will be governed by Harvard Bioscience's certificate of incorporation and bylaws, rather than Genomic Solutions' certificate of incorporation and bylaws.

Completion and Effectiveness of the Merger (See page 67)

Harvard Bioscience and Genomic Solutions expect to complete the merger when all of the conditions to completion of the merger contained in the merger agreement have been satisfied or waived.

Harvard Bioscience and Genomic Solutions are working toward satisfying these conditions and completing the merger as quickly as possible. Harvard Bioscience and Genomic Solutions currently plan to complete the merger in the fourth quarter of 2002 following the special meeting of Genomic Solutions stockholders, assuming the Genomic Solutions stockholders adopt and approve the merger agreement and approve the merger and the other merger conditions are satisfied. However, because the merger is subject to specified conditions, some of which are beyond Harvard Bioscience's and Genomic Solutions' control, the exact timing cannot be predicted.

Assuming the Genomic Solutions stockholders approve the merger and the merger agreement, and the other conditions to completion of the merger have been satisfied or waived, the merger will become effective upon the filing of a certificate of merger with the State of Delaware. Harvard Bioscience and Genomic Solutions expect to file the certificate of merger shortly following the special meeting of Genomic Solutions stockholders at which the merger agreement and the merger will be presented and voted upon.

Genomic Solutions Prohibited from Soliciting Other Offers (See page 75)

Genomic Solutions has agreed that, while the merger is pending, it will not solicit, initiate or encourage, or, subject to some limited exceptions, engage in discussions with any third parties regarding some types of extraordinary transactions, such as a tender offer, merger, consolidation or similar transaction involving Genomic Solutions.

Conditions to Completion of the Merger (See page 78)

Harvard Bioscience's and Genomic Solutions' obligations to complete the merger are subject to specified conditions described under "The Merger Agreement Conditions to Completion of the Merger."

Termination of the Merger Agreement and Payment of Termination Fee (See pages 80 and 82)

Harvard Bioscience and Genomic Solutions may terminate the merger agreement by mutual

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agreement and under other specified circumstances.

Genomic Solutions and Harvard Bioscience have agreed that if the merger agreement is terminated under certain circumstances described under "The Merger Agreement Payment of Termination Fees and Expenses," Genomic Solutions will pay Harvard Bioscience a fee of \$1,300,000.

Genomic Solutions and Harvard Bioscience have also agreed that if the merger agreement is terminated under certain circumstances, Genomic Solutions will reimburse Harvard Bioscience for its out-of-pocket expenses.

Material United States Federal Income Tax Consequences of the Merger (See page 84)

In general, for federal income tax purposes, you will recognize capital gain, but not any loss, on the exchange of your Genomic Solutions common stock for Harvard Bioscience common stock and cash to the extent of the lesser of the cash received and the gain realized in the exchange.

This tax treatment may not apply to all Genomic Solutions stockholders. Determining the actual tax consequences of the merger to you can be complicated. You should consult your own tax advisor for a full understanding of the merger's tax consequences that are particular to you.

Genomic Solutions will not be obligated to complete the merger unless it receives a legal opinion from its tax counsel, dated as of the closing date, as to the tax consequences of the merger. If Genomic Solutions' tax counsel is unwilling or unable to render the tax opinion, Harvard Bioscience's tax counsel may render the tax opinion. This opinion will not bind the Internal Revenue Service, which could take a different view.

Accounting Treatment of the Merger (See page 86)

The merger will be accounted for under the purchase method of accounting and Harvard Bioscience will be considered the acquiror of Genomic Solutions for accounting purposes. Accordingly, the historical financial statements of Harvard Bioscience will become the historical financial statements of the combined company following the merger.

Regulatory Approvals Required to Complete the Merger (See page 86)

Neither Harvard Bioscience nor Genomic Solutions is aware of any material governmental or regulatory approval required for completion of the merger, other than compliance with applicable corporate law of the State of Delaware and federal and state securities laws.

Dissenters' Rights of Appraisal (See pages 48 and 87)

Under Section 262 of the Delaware General Corporation Law, record holders of Genomic Solutions common stock are entitled to dissent from the merger, request a judicial appraisal of the fair value of their shares of Genomic Solutions common stock and, if the merger is consummated and all requirements of Section 262 are satisfied by Genomic Solutions stockholders seeking to exercise appraisal rights, to receive payment equal to the fair value of their shares of Genomic Solutions common stock, as determined in the manner set forth under Section 262. The procedures which must be followed in connection with the exercise of appraisal rights by dissenting stockholders are described in the sections entitled "The Special Meeting of Genomic Solutions Stockholders Dissenters' Rights of Appraisal" and "The Merger and Related Transactions Dissenters' Rights of Appraisal," beginning on page 48 and page 87, respectively, of this proxy statement and prospectus. A copy of Section 262 of the Delaware General Corporation Law is attached as Annex C to this proxy statement and prospectus. Failure to strictly follow the procedures set forth in Section 262 on a timely basis may result in a termination or loss of appraisal rights.

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Restrictions on the Ability to Sell Harvard Bioscience Common Stock Received in the Merger (See page 86)

All shares of Harvard Bioscience common stock that you receive in connection with the merger will be freely transferable unless you are deemed to be an affiliate of Genomic Solutions prior to the completion of the merger or an affiliate of Harvard Bioscience after the completion of the merger under the Securities Act, or your shares are subject to other contractual restrictions. Shares of Harvard Bioscience common stock received by persons deemed to be affiliates in the merger may only be sold in compliance with Rule 145 under the Securities Act.

Listing of Harvard Bioscience Common Stock (See page 87)

The shares of Harvard Bioscience common stock issued in connection with the merger will be listed on the Nasdaq National Market under the symbol "HBIO."

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HARVARD BIOSCIENCE SUMMARY SELECTED CONSOLIDATED FINANCIAL DATA

The following summary selected consolidated statement of operations data of Harvard Bioscience for each of the three years ended December 31, 2001, 2000 and 1999 and the summary selected consolidated balance sheet data as of December 31, 2001 and 2000 set forth below, are derived from the historical audited consolidated financial statements included in Harvard Bioscience's Annual Report on Form 10-K for the year ended December 31, 2001. The summary selected consolidated statement of operations data for each of the two years ended December 31, 1998 and 1997 and the consolidated balance sheet data as of December 31, 1998, and 1997 are derived from Harvard Bioscience's historical audited financial statements. Harvard Bioscience derived the summary selected consolidated balance sheet and statement of operations data as of and for the six month periods ended June 30, 2002 and 2001 from its unaudited consolidated financial statements. These unaudited consolidated financial statements include, in the opinion of management, all normal and recurring adjustments that are necessary for a fair statement of results. The operating results for the six months ended June 30, 2002 are not necessarily indicative of the results that may be expected for the year ending December 31, 2002. When you read the following summary historical data, it is important that you read it along with the historical consolidated financial statements and related notes in Harvard Bioscience's Annual Report on Form 10-K for the year ended December 31, 2001 and Harvard Bioscience's quarterly reports on Form 10-Q filed with the Securities and Exchange Commission and incorporated by reference into this proxy statement and prospectus, as well as the section of Harvard Bioscience's Annual Report on Form 10-K entitled "Management's Discussion and Analysis of Financial Condition and Results of Operations."

		Years Ended December 31,										Six Mo Ended Ju		
		1997		1998		1999		2000		2001		2001	ź	2002
			((in thousa	nds,	, except per	sha	re data)				(unaud	lited	l)
Consolidated Statement of Operations Data:														
Revenues	\$	11,464	\$	12,154	\$	26,178	\$	30,575	\$	40,868	\$	18,318	\$	25,692
Costs and Expenses:														
Cost of product revenues		5,128		5,351		13,547		15,833		20,179		9,223		12,405
General and administrative expenses		2,338		2,317		4,147		5,181		7,001		3,332		4,032
Severance and other related costs										460				
Sales and marketing expense		1,672		1,722		2,449		3,186		4,840		2,042		3,297
Research and development		207		325		1,188		1,533		3,179		1,048		2,024
Stock compensation expense						3,283		14,676		2,679		1,541		655
In-process research and development										5,447		5,447		
Amortization of goodwill and other intangibles				27		368		604		1,744		487		612
	_		_				_							
Operating income (loss)		2,119		2,412		1,196		(10,438)		(4,661)		(4,802)		2,667

				Six Months Ended June 30,				
	_							
Other (expenses) income:								
Foreign currency (loss) gain		(96)	21	(48)	(324)	(99)	(237)	129
Common stock warrant interest expense		(117)	(1,379)	(29,694)	(36,885)	1.050	0.51	105
Interest (expense) income, net		(222)	(210)	(657)	(756)	1,352	951	187
Amortization of deferred financing costs		107	10	(63)	(153)	(10)	_	(2.1)
Other		106	10	(17)	45	(10)	7	(34)
Other income (expense), net		(329)	(1,558)	(30,479)	(38,073)	1,243	721	282
Income (loss) before income taxes		1,790	854	(29,283)	(48,511)	(3,418)	(4,081)	2,949
Income taxes		682	783	137	1,359	1,790	1,012	1,158
Net income (loss)		1,108	71	(29,420)	(49,870)	(5,208)	(5,093)	1,791
Preferred stock dividends		(122)	(122)	(157)	(136)			
Net income (loss) available to common stockholders	\$	986 \$	(51) \$	(29,577) \$	(50,006) \$	(5,208) \$	(5,093) \$	1,791
Income (loss) per share:								
Basic	\$	0.13 \$	(0.01) \$	(5.28) \$	(6.25) \$	(0.20) \$	(0.20) \$	0.07
Diluted	\$	0.06 \$	(0.01) \$	(5.28) \$	(6.25) \$	(0.20) \$	(0.20) \$	0.07
Weighted average common shares:								
Basic		7,406	5,599	5,599	8,005	25,785	25,377	26,470
Dasic	_	7,400	5,599	5,599	8,005	25,785	25,511	20,470
Diluted		17,500	5,599	5,599	8,005	25,785	25,377	27,061
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Goodwill and other intangible assets Adoption of Statement of Financial Accounting Standards (SFAS) No. 142; 'Goodwill and Other Intangible Assets''

The following table presents the net income (loss) data of Harvard Bioscience, as if SFAS No. 142 was adopted for all years presented. On January 1, 2002, Harvard Bioscience adopted SFAS No. 142, and accordingly no longer amortizes goodwill and indefinite lived intangible assets, but rather such assets are subject to annual impairment reviews or more frequently, if events or circumstances indicate that there may be an impairment. During the second quarter of 2002, Harvard Bioscience completed the implementation review as required under SFAS No. 142, and concluded that there was no impairment of goodwill at the time of adoption on January 1, 2002.

			Ye		Six Months Ended June 30,					
	1	1997	1998	1999	2000	2001	2001	2002		
			(in thou	sands, except pe	r share data)	Ended June 30, 2001 2001 2002 (unaudited)				
Net income (loss) Add back: Goodwill amortization, net of tax	\$	986 \$ 0	(51) 18	\$ (29,577) 303	\$ (50,006) \$ 459					

		Years Ended December 31,							Six Months Ended June 30,				
Adjusted net income (loss)		\$ 98	6	\$ (3)	3)\$	(29,274) \$	5 (49,5	(47)	\$ (4,397) \$	(4,811)	\$	1,791
5						. , , , .	, , , , , , , , , , , , , , , , , , ,				())		,
Basic earnings per share													
Net income (loss)		\$ 0.1	2	\$ (0.0)	1) \$	(5.28) \$	6	.25)	\$ (0.20	21	(0.20)	\$	0.07
Add back: Goodwill amortization, net of tax		φ 0.1	5	\$ (0.0) 0.0(0.05		.06	\$ (0.20 0.03		0.01	φ	0.07
Add back. Goodwill amortization, liet of tax				0.00		0.05	0.	.00	0.05		0.01		
Adjusted net income (loss)		\$ 0.1	3	\$ (0.0)	1) \$	(5.23) \$	6 (6	.19)	\$ (0.17) \$	(0.19)	\$	0.07
1 10J 2000 100 110 0110 (1000)		• • • • •		¢ (010	, 4	(0120) 4	. (0		¢ (011))	(011))	Ŷ	0.07
Diluted earnings per share			_										
Net income (loss)		\$ 0.0	6	\$ (0.0)	1) \$	(5.28) \$	6 (6	.25)	\$ (0.20) \$	(0.20)	\$	0.07
Add back: Goodwill amortization, net of tax		φ 0.0		¢ (0.0) 0.0(0.05		.06	0.03		0.01	Ψ	0.07
				0.0		0.05	0	.00	0.05		0.01		
Adjusted net income (loss)		\$ 0.0	6	\$ (0.0)	1)\$	(5.23) \$	6 (6	.19)	\$ (0.17)\$	(0.19)	\$	0.07
					As	of December 31,			As of June 30		0,		
		1997		1998		1999	2000		2001		2001		2002
					(i	in thousands)					(unau	dited)
Balance Sheet Data:													
Cash and cash equivalents	\$	707 \$	2	957	¢	2,396 \$	35,817	\$	29,386	¢	31,182	\$	27,025
Working capital	Ψ	1,698	þ	2,206	Ψ	3,783	40,552		32,597	Ψ	36,521	Ψ	36,210
Total assets		6,161		7,220		20,610	58,809		82,362		73,537		83,538
Long-term debt, net of current portion		829		638		5,073	1		637		40		92
Preferred stock		1,621		1,500		2,500	-		007				/_
Common stock warrants		,		1,500		31,194							
Stockholders' equity (deficit)		737		678		(25,711)	52,335		66,812		65,317		71,481
Recent Developments						/							

On July 1, 2002, Harvard Bioscience's Biochrom subsidiary completed the acquisition of all the assets of Walden Precision Apparatus for a purchase price of approximately \$1.4 million in cash and the assumption of specified operating liabilities. The transaction will be accounted for using the purchase method of accounting.

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GENOMIC SOLUTIONS SUMMARY SELECTED CONSOLIDATED FINANCIAL DATA

The table below presents summary selected historical consolidated financial data of Genomic Solutions. When you read this summary historical financial data, it is important that you read it along with the historical consolidated financial statements and related notes included in this proxy statement and prospectus beginning on page F-1, as well as the section entitled "Genomic Solutions' Management's Discussion and Analysis of Financial Condition and Results of Operations of Genomic Solutions" beginning on page of this proxy statement and prospectus. The summary selected consolidated statement of operations data for each of the three years ended December 31, 2001, 2000 and 1999 and the selected consolidated balance sheet data as of December 31, 2001 and 2000, set forth below, are derived from the historical audited consolidated financial statements included in Genomic Solutions' Form 10-K for the years ended December 31, 1998 and 1997 and the summary selected balance sheet data as of December 31, 1997, set forth below, have been derived from the historical audited consolidated financial statements not included herein. Genomic Solutions derived the summary selected consolidated balance sheet and statement of operations data of 2001, set forth below, have been derived from the historical audited consolidated financial statements not included herein. Genomic Solutions derived the summary selected consolidated balance sheet and statement of operations data as of and for the six months ended June 30, 2002 and 2001, set forth below, from its unaudited financial statements. These unaudited financial statements include, in the opinion of management, all normal recurring adjustments that are necessary for a fair statement of results. Operating results for the six months ended June 30, 2002 are not necessarily indicative of the results that may be expected for the entire

year ending December 31, 2002.

	Years Ended December 31,						Six Months Ende	ths Ended June 30,			
		1997	1998	1999	2000	2001	2001	2002			
	(in thousands, except per share data)						(unaudite	ed)			
Consolidated statement of operations											
data: Revenue	\$	2,164 \$	5,507 \$	12,092 \$	19,077 \$	16,840	\$ 8,842 \$	12,716			
Costs of revenue(1):	ψ	1,063	3,266	6,990	9,374	11,792	4,966	6,657			
	_		-,	-,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,->=		-,			
Gross profit		1,101	2,241	5,102	9,703	5,048	3,876	6,059			
Operating expenses:											
Selling, general and administrative		2,198	6,372	8,652	11,919	14,136	6,932	7,311			
Research and development		942	3,354	4,830	5,596	6,797	3,620	2,483			
Restructuring and other unusual			,	,	,	,	,	,			
charges(2)		1,578	340	438	600	10,936					
Total operating expenses		4,718	10,066	13,920	18,115	31,869	10,552	9,794			
Loss from operations		(3,617)	(7,825)	(8,818)	(8,412)	(26,821)	(6,676)	(3,735)			
Total other (expense) income		(3,017)	(7,823)	(2,324)	(8,412)	(20,821)	830	(228)			
	_	(201)		(2,32.)		, = 1		(220)			
Loss before taxes and extraordinary											
items		(3,878)	(7,786)	(11,142)	(7,854)	(26,100)	(5,846)	(3,963)			
(Benefit from) Provision for income taxes		(642)					72				
Loss before extraordinary items		(3,236)	(7,786)	(11,142)	(7,854)	(26,100)	(5,918)	(3,963)			
Extraordinary items(3)		1,245			(1,050)						
Net Loss		(1,991)	(7,786)	(11,142)	(8,904)	(26,100)	(5,918)	(3,963)			
Non-cash common stock warrant benefit (charge)(4)				(3,861)	1,059						
Deemed dividend upon issuance to and				(3,001)	1,059						
subsequent repurchase of stock from											
PerkinElmer, Inc.(5)					(8,000)	(2,811)	(2,811)				
	_										
Net loss attributable to common stockholders	\$	(1,991) \$	(7,786) \$	(15,003) \$	(15,845) \$	(28,911)	\$ (8,729) \$	(3,963)			
stockholders	ψ	(1,991)\$	(7,780)\$	(15,005) \$	(15,645)\$	(20,911)	\$ (8,729)\$	(3,903)			
Net loss per share, basic and diluted:											
Loss per share before extraordinary items	\$	(6.93) \$	(2.71) \$	(3.75) \$	(0.45) \$	(1.05)	\$ (0.24) \$	(0.13)			
Loss per share before extraordinary items	φ	(0.95)\$	(2.71) \$	(<i>3.13</i>) \$	(0.+3)\$	(1.05)	\$ (0.24)\$	(0.13)			
	¢	(1.07) *	(0.51) *	(0.55) *	(0.51) *	(1.05)		(0.12)			
Net loss per share	\$	(4.27) \$	(2.71) \$	(3.75) \$	(0.51) \$	(1.05)	\$ (0.24) \$	(0.13)			
Net loss per share attributable to common											
stockholders	\$	(4.27) \$	(2.71) \$	(5.04) \$	(0.90) \$	(1.17)	\$ (0.35) \$	(0.13)			
								,			
Weighted average common shares		467	2,876	2,974	17,526	24,791	24,734	31,176			
			_,070	_,,,,		,, / / 1	,, ; ; ;	21,170			

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(1)

In September 2001, Genomic Solutions recorded an inventory impairment charge of approximately \$1,180,000.

(2)

In 2001, Genomic Solutions recorded a restructuring charge of approximately \$2,731,000 to close its Lansing, Michigan engineering and production facility; to reduce its workforce by 25%; to record the impairment of goodwill originating from the acquisition of PBA Technologies, Ltd. and the electrophoresis and gel services business of ESA, Inc.; and to record the impairment of long lived assets and the loss on sale and disposal of assets. In 2001 Genomic Solutions also recorded unusual charges of \$4,200,000 for the write-off of in-process research and development acquired from Cartesian Technologies, Inc. and of \$4,005,000 for the impairment of certain long lived assets. In 2000 Genomic Solutions recorded a restructuring charge of \$600,000 to close its Chelmsford, Massachusetts proteomic facility. In 1999 Genomic Solutions recorded an unusual charge of approximately \$438,000 for the write-off of goodwill originating from the acquisition of certain assets of Insight Biomedical Imaging. In 1998 Genomic Solutions recorded an unusual charge of approximately \$438,000 for the write off approximately \$340,000 for the write-off of in-process research and development acquired from ESA, Inc. In 1997 Genomic Solutions recorded an unusual charge of approximately \$861,000 for the write down of goodwill and intangible assets and approximately \$328,000 write-off of unamortized capitalized software development costs related to the merger with B.I. System Corporation and approximately \$389,000 write-off of in-process research and development acquired from PBA

(3)

In 2000, Genomic Solutions accounted for the amendment to its subordinated notes as an extinguishment of debt and recorded an extraordinary loss of \$1,050,000. In 1997 Genomic Solutions recorded an extraordinary gain of approximately \$1,245,000 on the forgiveness of debt.

(4)

In 2000, Genomic Solutions recorded decretion of approximately \$1,059,000 on its common stock warrants. In 1999 Genomic Solutions recorded accretion of approximately \$3,861,000 on its common stock warrants.

(5)

In 2001, Genomic Solutions recorded a deemed dividend charge of approximately \$2,811,000 related to the repurchase of a portion of the Series P preferred stock held by PerkinElmer, Inc. In 2000 Genomic Solutions recorded a charge of \$8,000,000 related to the beneficial conversion feature associated with the issuance of Series P preferred stock to PerkinElmer, Inc.

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Goodwill and other intangible assets Adoption of SFAS No. 142 (unaudited)

The following table presents the net loss data of Genomic Solutions, as if SFAS No. 142 was adopted for all years presented. On January 1, 2002, Genomic Solutions adopted SFAS No. 142, and accordingly no longer amortizes goodwill and indefinite lived intangible assets, but rather such assets are subject to annual impairment reviews or more frequently, if events or circumstances indicate that there may be an impairment. During the second quarter of 2002, Genomic Solutions completed the implementation review as required under SFAS No. 142, and concluded that there was no impairment of goodwill at the time of adoption on January 1, 2002.

	 Years Ended December 31,						Six Months Ended June 30,		
	1997	1998	1999	2000 2001		2001	2002		
			(in thousands	s, except per share	data)				
Net loss before extraordinary items	\$ (3,236) \$	(7,786) \$	(11,142) \$	(7,854) \$	(26,100) \$	(5,918) \$	(3,963)		
Net loss	(1,991)	(7,786)	(11,142)	(8,904)	(26,100)	(5,918)	(3,963)		

		Years Ended December 31,						hs e 30,
Net loss attributable to common								
stockholders		(1,991)	(7,786)	(15,003)	(15,845)	(28,911)	(8,729)	(3,963)
Add back: Goodwill amortization, net of tax		13	166	416	293	248	147	
Adjusted net loss before extraordinary								
items	\$	(3,223) \$	(7,620) \$	(10,726) \$	(7,561) \$	(25,852) \$	(5,771) \$	(3,963)
Adjusted net loss	\$	(1,978) \$	(7,620) \$	(10,726) \$	(8,611) \$	(25,852) \$	(5,771) \$	(3,963)
Adjusted net loss attributable to common stockholders	\$	(1,978) \$	(7,620) \$	(14,587) \$	(15,552) \$	(28,663) \$	(8,582) \$	(3,963)
Not I ass non shows basis and diluted.								
Net Loss per share, basic and diluted: Net loss before extraordinary items	\$	(6.93) \$	(2.71) \$	(3.75) \$	(0.45) \$	1.05) \$	(0.24) \$	(0.13)
Net loss		(4.27)	(2.71)	(3.75)	(0.51)	(1.05)	(0.24)	(0.13)
Net loss attributable to common stockholders		(4.27)	(2.71)	(5.04)	(0.90)	(1.17)	(0.35)	(0.13)
Add back: Goodwill amortization, net of tax		0.03	0.06	0.14	0.02	0.01	0.01	
Adjusted net loss before extraordinary items	\$	(6.90) \$	(2.65) \$	(3.61) \$	(0.43) \$	(1.04) \$	(0.23) \$	(0.13)
Adjusted net loss	\$	(4.24) \$	(2.65) \$	(3.61) \$	(0.49) \$	(1.04) \$	(0.23) \$	(0.13)
Adjusted net loss attributable to common stockholders	\$	(4.24) \$	(2.65) \$	(4.90) \$	(0.89) \$	(1.16) \$	(0.35) \$	(0.13)
	-	() +	(, +	(, ¢) +	(0.07) +	() +	(0.00) +	(0000)
	_		A	s of December 3	1,		As of Jun	e 30,
	_	1997	1998	1999	2000	2001	2001	2002
				(in thousands)			(unaudi	ted)
Consolidated balance sheet data:								
Cash and cash equivalents	\$					13,097 \$	23,928	5,266
Total assets		8,579	11,694	13,858	65,224	47,924	48,790	41,993
Total debt Total stockholders' equity (deficit)	\$	901 5,912	2,819 \$ 5,845 15	11,190 \$ (9,381) \$	1,956 \$ 51,989 \$	2,623 34,439 \$	1,565 40,125 \$	2,588 30,932

Recent Developments

Restructuring

In September 2001, Genomic Solutions announced a restructuring of its operations to implement significant cost savings and to accelerate its plan to achieve profitability. As part of the restructuring, it closed its Lansing, Michigan manufacturing facility and relocated those operations to its headquarters in Ann Arbor. The restructuring reduced Genomic Solutions' workforce in the United States and the United Kingdom by approximately 25%. In connection with the Cartesian Technologies, Inc. acquisition, Genomic Solutions closed its San Diego, California sales office and consolidated these activities with Cartesian's Irvine, California operations and Cartesian has closed its United Kingdom office and moved its operations to Genomic Solutions' Huntingdon facility.

As part of the restructuring, Genomic Solutions also sold certain assets used in connection with its proteomic contract research services business to Proteomic Research Services, Inc., a newly formed company owned and controlled by former employees of Genomic Solutions who were actively involved in providing proteomic-related services. Genomic Solutions owns 19.9% of Proteomic Research Services and has agreed to contract with it for assistance with certain proteomic projects. In return, Proteomic Research Services has agreed to purchase Genomic Solutions' instruments and consumables to the extent such items are required in connection with the operations of Proteomic Research Services.

In July 2002, Genomic Solutions announced a further restructuring of its operations. The restructuring is expected to result in a reduction of Genomic Solutions' operating cost structure. As part of the restructuring, Genomic Solutions reduced its workforce by approximately 30%, discontinued certain products and will close certain facilities. As a result of this restructuring, Genomic Solutions will record restructuring and inventory impairment charges of approximately \$1.5 million during the third quarter of 2002.

Relationship with Proteometrics

In February 2002, Genomic Solutions entered into an exclusive worldwide software license with Proteometrics, LLC. Under this relationship, Genomic Solutions obtained the exclusive right to develop, support and license the Proteometrics bioinformatic software product line.

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SELECTED COMBINED COMPANY UNAUDITED PRO FORMA FINANCIAL INFORMATION

The following selected unaudited pro forma combined financial information for the year ended December 31, 2001 and the six months ended June 30, 2002 has been derived from and should be read in conjunction with the Combined Company Unaudited Pro Forma Condensed Combined Financial Information and related notes included elsewhere in this proxy statement and prospectus. This information is based on the respective audited and unaudited historical consolidated financial statements of Harvard Bioscience and Genomic Solutions and after giving effect to the acquisition of Genomic Solutions, using the purchase method of accounting for business combinations. This information is for illustrative purposes only. The companies may have performed differently had they always been combined. You should not rely on the selected unaudited pro forma combined financial information as being indicative of the historical results that would have been achieved had the companies always been combined or the future results that the combined company will experience after the merger.

		ear Ended nber 31, 2001	Six months ended June 30, 2002
	(in	thousands, except p	er share amounts)
Pro Forma Statement of Operations Data:			
Revenues	\$	57,708	\$ 38,408
Costs and Expenses:			
Cost of product and service revenues		31,971	19,062
Selling, marketing, general and administrative expenses		25,598	14,217
Research and development		9,976	4,507
Stock compensation expense		2,679	655
In-process research and development expense		9,647	
Amortization of goodwill and other intangibles		2,299	889
Restructuring costs		7,196	
-			
Operating loss		(31,658)	(922)

Other (expense) income:

		ear Ended nber 31, 2001	Six months ended June 30, 2002
Interest, net		2,293	237
Other		(329)	(183)
Other (expense) income, net		1,964	54
Loss before income taxes		(29,694)	(868)
Income taxes		1,709	806
Net loss Deemed dividend upon issuance to and subsequent repurchase of stock		(31,403) (2,811)	(1,674)
Deenied arrading upon issuance to and subsequent reputchase of stock		(2,011)	
Net loss available to common stockholders	\$	(34,214)	\$ (1,674)
Loss per share:			
Basic and diluted	\$	(1.18)	\$ (0.06)
Weighted average common shares:			
Basic and diluted		28,985	29,670
		As of Jun 2002	
		(in thous	ands)
Pro Forma Balance Sheet Data:			
Cash and cash equivalents			23,291
Working capital			37,760
Total assets		11	4,997
Long-term debt, net of current portion			136
Stockholders' equity 17	7	8	36,412

COMPARATIVE HISTORICAL AND PRO FORMA PER SHARE DATA

The following tables set forth certain historical per share data of Harvard Bioscience and Genomic Solutions and combined per share data on an unaudited pro forma basis after giving effect to the merger using the purchase method of accounting, and assuming that an aggregate of 3.2 million shares of Harvard Bioscience common stock are issued in exchange for all of the shares of Genomic Solutions common stock in connection with the merger. The actual conversion ratio for Genomic Solutions common stock in the merger may be different than this assumed conversion ratio. The following data should be read in conjunction with the separate historical consolidated financial statements of Genomic Solutions included in this proxy statement and prospectus and the separate historical consolidated financial statements of Harvard Bioscience incorporated by reference in this proxy statement and prospectus. The unaudited pro forma combined per share data do not necessarily indicate the operating results that would have been achieved had the merger been completed as of the beginning of the earliest period presented and should not be taken as representative of future operations. The results may have been different if the companies had always been consolidated. All per share information has been restated, as applicable for stock splits, as discussed in each entity's respective consolidated financial statements and notes thereto. No cash dividends have ever been declared or paid on Harvard Bioscience or Genomic Solutions common stock.

	As of and for the
For the year ended	six months ended
December 31, 2001	June 30, 2002

	year ended er 31, 2001	As of and for the six months ended June 30, 2002		
Basic income (loss) per share	\$ (0.20) \$	6 0.07		
Diluted income (loss) per share	\$ (0.20) \$	6 0.07		
Book value per Common Share as of June 30, 2002	\$ \$	5 2.67		
Genomic Solutions Historical:				
Basic income (loss) per share	\$ (1.17) \$	6 (0.13)		
Diluted income (loss) per share	\$ (1.17) \$	6 (0.13)		
Book value per Common Share as of June 30, 2002	\$ \$	6 0.99		
Pro Forma Combined:				
Basic loss per share	\$ (1.18) \$	6 (0.06)		
Diluted loss per share	\$ (1.18) \$	6 (0.06)		
Book value per Common Share as of June 30, 2002	\$ \$	5 2.88		

COMPARATIVE PER SHARE MARKET PRICE DATA AND DIVIDEND INFORMATION

Genomic Solutions common stock is traded on the Nasdaq National Market under the symbol "GNSL." Harvard Bioscience common stock is traded on the Nasdaq National Market under the symbol "HBIO." The following table shows the high and low sale prices per share of Genomic Solutions common stock and Harvard Bioscience common stock as reported on the Nasdaq National Market for each of the quarters in the two most recent years and in the current year. Genomic Solutions common stock has been listed on the Nasdaq National Market since May 5, 2000, the date of Genomic Solutions' initial public offering. Harvard Bioscience common stock has been listed on the

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Nasdaq National Market since December 7, 2000, the date of Harvard Bioscience's initial public offering.

		Geno	omic	Solu	tions	ł	Iarvard E	Bioscience					
Fiscal Quarters		High		Low		High		Low					
2000:			_			_		_					
First Quarter													
* Second Quarter		\$ 17	.38	\$	7.88								
Third Quarter		30	.12		11.81								
** Fourth Quarter		18	.81		4.94	\$	13.50	\$	8.00				
2001:													
First Quarter		\$9	.00	\$	2.50	\$	7.12	\$	5.88				
Second Quarter		5	.89		1.75		11.60		5.90				
Third Quarter		4	.44		1.50		14.50		7.81				
Fourth Quarter		2	.93		1.54		13.25		7.35				
2002:													
First Quarter		\$ 2	.80	\$	1.30	\$	10.15	\$	6.75				
Second Quarter		1	.65		0.58		9.10		4.07				
Third Quarter (through September 16, 2002)		0	.90		0.37		6.73		3.85				

*

Commencing on May 5, 2000 for Genomic Solutions

**

Commencing on December 7, 2000 for Harvard Bioscience

The Nasdaq stock market has notified Genomic Solutions that Genomic Solutions currently fails to meet the maintenance standards for continued listing on the Nasdaq National Market and that Genomic Solutions common stock is subject to delisting. Genomic Solutions is in the process of filing an appeal with Nasdaq and will continue to be listed on the Nasdaq National Market pending the resolution of this appeal.

Recent Closing Prices

The following table shows the closing prices per share of Genomic Solutions common stock and Harvard Bioscience common stock as reported on the Nasdaq National Market on (1) July 17, 2002, the business day preceding the public announcement that Harvard Bioscience and Genomic Solutions had entered into the merger agreement and (2) September 16, 2002, the most recent practicable date prior to the date of this proxy statement and prospectus.

The following table also includes the equivalent price per share of Genomic Solutions common stock on those dates. This equivalent per share price reflects the value of the Harvard Bioscience common stock and cash consideration you would receive for each share of your Genomic Solutions common stock if the merger was completed on either of these dates, applying (1) an assumed conversion ratio as of July 17, 2002 of 0.1015 of a share of Harvard Bioscience common stock and \$0.2855 in cash for each share of Genomic Solutions common stock and (2) an assumed conversion ratio as of September 16, 2002 of 0.1016 of a share of Harvard Bioscience common stock. These amounts are estimates based on the number of outstanding shares of Genomic Solutions common stock on each of July 17, 2002 and September 16, 2002, the most recent practicable date prior to the date of this proxy statement and prospectus, and assuming that all in-the-money options to purchase Genomic Solutions common stock outstanding on each of July 17, 2002 and September 16, 2002 and september 16, 2002 are exercised prior to the merger, and may change at the completion of the merger as a result of changes in the number of shares of

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Genomic Solutions common stock outstanding due to, among other things, actual stock option exercises and purchases under the Genomic Solutions employee stock purchase plan.

	Sol Co	nomic utions mmon tock	Harvard Bioscience Common Stock		Equivalent Price Per Share	
July 17, 2002	\$	0.50	\$	5.34	\$	0.8275*
September 16, 2002	\$	0.69	\$	4.87	\$	0.7806**

*

Applying an assumed conversion ratio as of July 17, 2002 of 0.1015 of a share of Harvard Bioscience common stock and \$0.2855 in cash for each share of Genomic Solutions common stock.

**

Applying an assumed conversion ratio as of September 16, 2002 of 0.1016 of a share of Harvard Bioscience common stock and \$0.2858 in cash for each share of Genomic Solutions common stock.

Because the market price of Genomic Solutions common stock and Harvard Bioscience common stock may increase or decrease before the completion of the merger, you are urged to obtain current market quotations.

As of September 16, 2002, the most recent practicable date prior to the date of this proxy statement and prospectus, there were approximately 141 stockholders of record of Genomic Solutions who held an aggregate of 31,257,198 shares of Genomic Solutions common stock.

As of September 16, 2002, the most recent practicable date prior to the date of this proxy statement and prospectus, there were approximately 104 stockholders of record of Harvard Bioscience who held an aggregate of 26,797,396 shares of Harvard Bioscience common stock.

Dividend Policy

Genomic Solutions has never paid dividends on its common stock. Genomic Solutions currently intends to retain any earnings for use in its operations and does not anticipate paying cash dividends in the foreseeable future.

Harvard Bioscience has never declared or paid dividends on its common stock in the past and does not intend to pay dividends in the foreseeable future. Any future determination to pay dividends will be at the discretion of Harvard Bioscience's board of directors and will depend on Harvard Bioscience's financial condition, results of operations, capital requirements and other factors Harvard Bioscience's board of directors deems relevant.

RISK FACTORS

By voting in favor of the adoption and approval of the merger agreement and the approval of the merger, you will be choosing to invest in Harvard Bioscience common stock. An investment in Harvard Bioscience common stock involves a high degree of risk. In addition to the other information contained in or incorporated by reference into this proxy statement and prospectus, you should carefully consider the following risk factors in deciding whether to vote in favor of adoption and approval of the merger agreement and approval of the merger. In addition, you should keep the following risk factors in mind when you read forward-looking statements in this proxy statement and prospectus. Please refer to the section entitled "Cautionary Statements Regarding Forward-Looking Statements in this Proxy Statement and Prospectus" beginning on page 44 of this proxy statement and prospectus.

Risks Related to the Merger

Harvard Bioscience may not realize the expected benefits of the merger due to difficulties integrating the businesses, operations and product lines of Harvard Bioscience and Genomic Solutions.

Harvard Bioscience's ability to achieve the benefits of the merger will depend in part on the integration and leveraging of technology, operations, sales and marketing channels and personnel of Harvard Bioscience and Genomic Solutions. The integration process will be a complex, time-consuming and expensive process and may disrupt Harvard Bioscience's business if not completed in a timely and efficient manner. The challenges involved in this integration include the following:

demonstrating to the combined company's customers and suppliers that the merger will not result in adverse changes in client service standards or business focus;

persuading the combined company's employees that Harvard Bioscience's and Genomic Solutions' business cultures are compatible; and

addressing any perceived adverse changes in business focus.

Harvard Bioscience may have difficulty successfully integrating the businesses, the domestic and foreign operations or the product lines of Harvard Bioscience and Genomic Solutions, and as a result, Harvard Bioscience may not realize any of the anticipated benefits of the merger. In particular, Harvard Bioscience may not successfully leverage Genomic Solutions' sales force or its distribution relationships which could adversely affect the combined company following the merger. Additionally, neither Harvard Bioscience nor Genomic Solutions can assure you that the growth rate of the combined company will equal the growth rates that have been experienced by Harvard Bioscience and Genomic Solutions, respectively, operating as separate companies in the past.

If you are a holder of Genomic Solutions common stock, you will receive a fixed amount of cash and a fixed number of shares of Harvard Bioscience common stock in exchange for each of your shares of Genomic Solutions common stock, regardless of any changes in market value of Harvard Bioscience common stock or Genomic Solutions common stock.

Upon completion of the merger, each share of Genomic Solutions common stock will be converted into the right to receive cash and shares of Harvard Bioscience common stock. While the aggregate merger consideration to be received by the stockholders of Genomic Solutions is fixed at 3,200,000 shares of Harvard Bioscience common stock and \$9,000,000 in cash, subject to adjustment in limited circumstances for extraordinary stock events and to preserve the intended tax free nature of the transaction, the per share conversion ratio for Genomic Solutions common stock will be determined based on the number of shares of Genomic Solutions common stock actually outstanding at the completion of the merger. Based on the number of outstanding shares of Genomic Solutions common stock on September 16, 2002, the most recent practicable date prior to the date of this proxy statement and prospectus, and assuming that all in-the-money options to purchase Genomic Solutions common

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stock as of September 16, 2002 are exercised prior to the merger, each outstanding share of Genomic Solutions common stock would be converted into the right to receive approximately \$0.2858 in cash and 0.1016 shares of Harvard Bioscience common stock pursuant to the merger agreement. There will be no adjustment to the conversion ratio for Genomic Solutions common stock in the merger as a result of changes in the market price of either Harvard Bioscience common stock or Genomic Solutions common stock, and neither Harvard Bioscience nor Genomic Solutions is permitted to withdraw from the merger solely because of changes in the market price of Harvard Bioscience common stock. Accordingly, the amount of cash and the amount and dollar value of Harvard Bioscience common stock you will receive upon completion of the merger will depend on the number of shares of Genomic Solutions common stock outstanding and the market value of Harvard Bioscience common stock at the time of the merger, which may be different than the number of shares of Genomic Solutions common stock outstanding and the market value of Harvard Bioscience and Genomic Solutions had entered into the merger agreement), or September 16, 2002 (the most recent practicable date prior to the date of this proxy statement and prospectus). In addition, the merger may not be completed immediately following the Genomic Solutions special meeting at which the merger agreement and the merger are presented and voted upon, if other conditions to the merger have not been satisfied or waived. We cannot assure you that the value of the Harvard Bioscience common stock you will receive in the merger have not been satisfied or waived. We cannot assure you that the value of the Harvard Bioscience common stock you will receive in the merger will not decline prior to the merger. Because the market price of Harvard Bioscience common stock and Genomic Solutions common stock and Genomic Solutions common stock may increase or decrease before the completion of the merger, you are urge

Customer, vendor and employee uncertainty about the merger could harm the combined company.

Harvard Bioscience's and Genomic Solutions' customers may, in response to the announcement or consummation of the merger, delay or defer purchasing decisions. Any delay or deferral in purchasing decisions by customers could adversely affect the business of the combined company. Similarly, Genomic Solutions' employees may experience uncertainty about their future role with the combined company until or after Harvard Bioscience announces and executes its strategies with regard to Genomic Solutions employees. This may adversely affect the combined company's ability to attract and retain key Genomic Solutions management, sales, marketing and technical personnel.

Purchase accounting treatment and the impact of amortization of intangibles with definite lives relating to the merger could adversely affect Harvard Bioscience's operating results.

The merger will be accounted for under the purchase method of accounting and Harvard Bioscience will be considered the acquiror of Genomic Solutions for accounting purposes. Accordingly, the historical financial statements of Harvard Bioscience will become the historical financial statements of the combined company following the merger. Under purchase accounting, Harvard Bioscience will record the following as the cost of acquiring the business of Genomic Solutions:

(1)

the sum of the market value of Harvard Bioscience common stock issued and the cash consideration paid in connection with the merger, and

(2)

the amount of direct transaction costs incurred by Harvard Bioscience.

Harvard Bioscience will allocate the cost of the items described in (1) and (2) above to the individual assets acquired and liabilities assumed, including intangible assets such as acquired technology, based on their respective fair values. Intangible assets, including goodwill with indefinite lives from acquisitions are evaluated annually to determine whether any portion of the remaining balance of goodwill may not be recoverable. The amount of purchase cost allocated to goodwill and other intangibles for accounting purposes is estimated to be approximately \$9.4 million computed using the estimated purchase price of \$27.0 million which is based on cash consideration of \$9 million, the

estimated fair value of common stock of \$17.3 million using the weighted average price of Harvard Bioscience's common stock during the five trading day period ended July 22, 2002, or \$5.41 per share, and direct transaction costs of approximately \$730,000. Included in the assumption of Genomic Solutions' liabilities are direct transaction costs of \$1.1 million estimated to be incurred by Genomic Solutions and one-time payments aggregating \$830,000 to certain officers of Genomic Solutions. If it is determined in the future that a portion of this goodwill is impaired, Harvard Bioscience will be required to write off that portion which could decrease the net income of Harvard Bioscience in the future, and this could have a material and adverse effect on the market value of Harvard Bioscience common stock following the completion of the

merger. These amounts are only estimates, however, and actual amounts may differ from these estimates.

Harvard Bioscience and Genomic Solutions expect to incur significant costs associated with the merger.

Harvard Bioscience estimates that it will incur direct transaction costs of approximately \$730,000, in addition to registration costs of approximately \$770,000 associated with the merger. The direct transaction costs of \$730,000 will be included as a part of the total purchase cost for accounting purposes, and the \$770,000 of registration costs will be included as a reduction of stockholders equity. In addition, Genomic Solutions estimates that it will incur transaction costs, which will be expensed as incurred for accounting purposes, of approximately \$1.9 million, including fees and other expenses payable to U.S. Bancorp Piper Jaffray Inc. in connection with the merger as described in the section entitled "The Merger and Related Transactions Consideration of the Merger by Genomic Solutions' Board of Directors Opinion of Genomic Solutions' Financial Advisor" beginning on page 58 of this proxy statement and prospectus and one-time payments aggregating \$830,000 to certain officers of Genomic Solutions. Harvard Bioscience believes the combined company may incur charges to operations, which are not currently reasonably estimable, in the quarter in which the merger is completed or the following quarters, to reflect costs associated with integrating the businesses and operations of Harvard Bioscience and Genomic Solutions. There can be no assurance that the combined company will not incur additional material charges in subsequent quarters to reflect additional costs associated with the merger.

The price of Harvard Bioscience common stock may be affected by factors different from those affecting the price of Genomic Solutions common stock.

When the merger is completed, holders of Genomic Solutions common stock will become holders of Harvard Bioscience common stock. Harvard Bioscience's business differs from that of Genomic Solutions, and Harvard Bioscience's results of operations, as well as the price of Harvard Bioscience common stock, may be affected by factors that are different from those affecting Genomic Solutions' results of operations and the price of Genomic Solutions common stock.

If the merger is not completed, Genomic Solutions' stock price and future business and operations could be adversely affected.

If the merger is not completed, Genomic Solutions may be subject to the following material risks, among others:

Genomic Solutions may be required to pay Harvard Bioscience a termination fee of \$1.3 million or to reimburse Harvard Bioscience for out-of-pocket expenses, including legal, accounting, printing and other fees, related to this transaction;

the price of Genomic Solutions common stock may decline to the extent that the current market prices of Genomic Solutions common stock reflects a market assumption that the merger will be completed; and

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Genomic Solutions' costs related to the merger, such as legal, accounting and some of the fees of Genomic Solutions' financial advisor, must be paid even if the merger is not completed.

Further, if the merger agreement is terminated and the Genomic Solutions board of directors determines to seek another merger or business combination, Genomic Solutions may not be able to find a partner willing to pay an equivalent or more attractive price than that which would be paid in the merger with Harvard Bioscience.

The termination fee and the restrictions on solicitation contained in the merger agreement and the terms of the voting agreements may discourage other companies from trying to acquire Genomic Solutions.

Until the completion of the merger, and with some exceptions, Genomic Solutions is prohibited from initiating or engaging in discussions with a third party regarding some types of extraordinary transactions, such as a merger, business combination or sale of a material amount of assets or capital stock. Genomic Solutions also agreed to pay a termination fee of \$1.3 million to Harvard Bioscience in specified circumstances and in certain other circumstances, to reimburse Harvard Bioscience's out-of-pocket expenses, including legal, accounting, printing and other fees, related to this transaction. In addition, holders of approximately 38% of the outstanding Genomic Solutions common stock as of July 17, 2002 have entered into agreements with Harvard Bioscience in which they agreed to vote in favor of the merger and to restrictions on initiating or engaging in discussions about any other acquisition proposals. These provisions could discourage other companies from trying to acquire Genomic Solutions even though those other companies might be willing to offer greater value to Genomic Solutions stockholders than Harvard Bioscience has offered in the merger. Payment of the termination fee or Harvard Bioscience's out-of-pocket expenses could also have a material

adverse effect on Genomic Solutions' financial condition.

Certain of Genomic Solutions' directors and executive officers have special interests in the merger that may influence them to support and approve the merger.

Certain of the directors and executive officers of Genomic Solutions have interests in the merger that are in addition to, or different than, their interests solely as Genomic Solutions stockholders. These interests include the following:

the payment of \$690,000 to Genomic Solutions' chief executive officer, in order to induce him to terminate his prior employment agreement and enter into a new employment agreement with the surviving corporation, which becomes effective upon the closing of the merger;

the nomination of Genomic Solutions' chief executive officer to the board of directors of Harvard Bioscience upon the effectiveness of the proposed merger;

the receipt of change in control payments under employment agreements with certain of Genomic Solutions' other executive officers;

the receipt of ongoing indemnification and insurance coverage with respect to acts taken and omissions to take action in their capacities as directors and officers of Genomic Solutions; and

the accelerated vesting of certain stock options, most of which currently are exercisable at prices higher than the recent trading prices of Genomic Solutions common stock, under the terms of existing option agreements.

The Genomic Solutions board of directors was aware of these interests when it approved the merger agreement and the merger. For a more detailed description of these interests, see "The Merger and Related Transactions" Consideration of the Merger by Genomic Solutions' Board of Directors Interests of Genomic Solutions' Directors and Officers in the Merger" beginning on page 64 of this proxy statement and prospectus.

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The merger may fail to qualify as a reorganization for federal income tax purposes, resulting in your recognition of taxable gain or loss in respect of your Genomic Solutions shares and Harvard Bioscience's treatment of the merger as a taxable sale.

Both Harvard Bioscience and Genomic Solutions intend 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 will, as a condition to closing, obtain a legal opinion from its tax counsel that the merger will constitute a reorganization for federal income tax purposes. These opinions do not bind the IRS or prevent the IRS from adopting a contrary position. If the merger fails to qualify as a reorganization, you generally would recognize gain or loss on each share of Genomic Solutions common stock surrendered in an amount equal to the difference between your adjusted tax basis in that share and the sum of the amount of cash and the fair market value of the Harvard Bioscience common stock received in exchange for that share upon completion of the merger.

In addition, 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 HAG Acq. Corp. As successor to Genomic Solutions, HAG Acq. Corp. would be liable for any tax incurred by Genomic Solutions as a result of this deemed asset sale.

Risks Related to Harvard Bioscience

If Harvard Bioscience is unable to achieve and sustain market acceptance of its new target validation high throughput screening, assay development and ADMET screening products across their broad intended range of applications, Harvard Bioscience will not generate expected revenue growth.

Harvard Bioscience's business strategy depends, in part, on successfully developing and commercializing its new target validation high throughput screening, assay development and ADMET screening technologies 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 Harvard Bioscience's marketing efforts and its ability to demonstrate to existing and potential customers that its technologies are superior to other technologies or techniques and products that are available now or may become available in the future. If Harvard Bioscience's new products do not gain market acceptance, or if market acceptance occurs at a slower rate than anticipated, it could materially adversely affect its business and future growth prospects.

Harvard Bioscience's products compete in markets that are subject to rapid technological change, and therefore one or more of its 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, Harvard Bioscience's product lines may be made obsolete unless it is able to continually improve existing products and develop new products. To meet the evolving needs of its customers, Harvard Bioscience must continually enhance its current and planned products and develop and introduce new products. However, Harvard Bioscience may experience difficulties that may delay or prevent the successful development, introduction and marketing of new products or product enhancements. In addition, Harvard Bioscience's product lines are based on complex technologies that are subject to rapid change as new technologies are developed and introduced in the marketplace. Harvard Bioscience may have difficulty in keeping abreast of the rapid changes affecting each of the different markets it serves or intends to serve. Harvard Bioscience's failure to develop and introduce products in a timely manner in response to changing technology, market demands or the requirements

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of its customers could cause its product sales to decline, and Harvard Bioscience could experience significant losses.

Harvard Bioscience offers and plans to offer a broad product line and has incurred and expects to continue to incur substantial expenses for development of new products and enhanced versions of its existing products. The speed of technological change in its market may prevent Harvard Bioscience from being able to successfully market some or all of its 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 Harvard Bioscience's profitability or cause Harvard Bioscience to experience significant losses.

Harvard Bioscience has limited experience in manufacturing some of its products that could cause problems or delays resulting in lost revenue.

If Harvard Bioscience fails to manufacture and deliver products in a timely manner, its relationships with its customers could be seriously harmed, and its revenue could decline. To achieve the production levels necessary for successful commercialization, Harvard Bioscience will need to scale-up its manufacturing facilities and in some cases establish automated manufacturing methods and quality control procedures. Harvard Bioscience cannot assure you that manufacturing or quality control problems will not arise as it attempts to scale-up its production or that it can scale-up manufacturing and quality control in a timely manner or at commercially reasonable costs. If it is unable to manufacture these products consistently on a timely basis because of these or other factors, Harvard Bioscience may not achieve the level of sales from these products that it otherwise anticipates.

If Amersham Biosciences (formerly Amersham Pharmacia Biotech) terminates its distribution agreement with Harvard Bioscience or fails to perform its obligations under the distribution agreement, it could impair the marketing and distribution efforts for some of Harvard Bioscience's products and result in lost revenues.

For the year ended December 31, 2001, approximately 30% of Harvard Bioscience's revenues were generated through an agreement with Amersham Biosciences, which was renegotiated in August 2001, under which Amersham Biosciences acts as the primary marketing and distribution channel for the products of Harvard Bioscience's Biochrom subsidiary. Under the terms of this agreement, Harvard Bioscience is restricted from allowing another person or entity to distribute, market and sell the majority of the products of its Biochrom subsidiary. Harvard Bioscience is also restricted from making or promoting sales of the majority of the products of its Biochrom subsidiary to any person or entity other than Amersham Biosciences or its authorized sub-distributors. Harvard Bioscience has 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 Harvard Bioscience's business and growth prospects during the term of this agreement. In addition, Harvard Bioscience's inability to maintain its arrangement with Amersham Biosciences for product distribution could materially impede the growth of Harvard Bioscience's business and its ability to generate sufficient revenue. Harvard Bioscience's agreement with Amersham Biosciences may be terminated with 30 days notice under some circumstances, including in the event of a breach of a material term by Harvard Bioscience. 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. While Harvard Bioscience believes its relationship with Amersham Biosciences is good, Harvard Bioscience cannot guarantee that the contract will be renewed or that Amersham Biosciences will aggressively market Harvard Bioscience's products in the future.

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Harvard Bioscience may be adversely affected by litigation involving Harvard University.

On December 26, 2000, Harvard University filed a lawsuit in U.S. District Court, District of Massachusetts alleging that Harvard Bioscience''s use of the "Harvard Bioscience" and "Harvard Apparatus" names infringes on Harvard University's trademarks. Harvard University is seeking both injunctive relief and monetary damages. On April 10, 2001, the U.S. District Court, District of Massachusetts denied Harvard University's request for a preliminary injunction prohibiting Harvard Bioscience from using the names "Harvard Bioscience" and "Harvard Apparatus." The Court did issue an order directing Harvard Bioscience not to use the "Harvard" name in the color crimson or in a font similar to the font used by Harvard University regarding Harvard Bioscience's use of the name "Harvard Apparatus." Harvard Bioscience intends to continue to vigorously defend the remaining claims as it believes that it has strong rights to the name "Harvard Bioscience" and that Harvard University's claims are without merit. Harvard Bioscience believes that the defense of these claims could involve significant litigation-related expenses, which could have an adverse effect on Harvard Bioscience's results of operations. If claims for injunctive relief or other damages are decided against it, Harvard Bioscience could suffer monetary damages, lose its ability to use the names "Harvard Bioscience" and "Harvard Apparatus," lose the reputation and goodwill associated with these names and ultimately experience decreased revenues and earnings in subsequent periods.

Harvard Bioscience 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 Harvard Bioscience and certain directors before JAMS in Boston, Massachusetts. Mr. Grindle's claims arise out of post-closing purchase price adjustments related to Harvard Bioscience's 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 stock in Harvard Bioscience, or the disgorgement of the profits of Harvard Bioscience's 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 stock as of January 2, 2002. Harvard Bioscience believes that Mr. Grindle's claims are without merit and intends to defend them vigorously. Harvard Bioscience believes that the defense of these claims could involve significant litigation-related expenses, which could have an adverse effect on Harvard Bioscience's results of operations. If claims for injunctive relief or other damages are decided against it, Harvard Bioscience could suffer monetary damages.

Harvard Bioscience's competitors and potential competitors may develop products and technologies that are more effective or commercially attractive than its products.

Harvard Bioscience expects to encounter increased competition from both established and development-stage companies that continually enter the market. Harvard Bioscience anticipates 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, and

companies developing drug discovery technologies.

Currently, Harvard Bioscience's principal competition comes from established companies that provide products that perform many of the same functions for which Harvard Bioscience markets its products. Harvard Bioscience's competitors may develop or market products that are more effective or commercially attractive than its current or future products. Many of Harvard Bioscience's competitors have substantially greater financial, operational, marketing and technical resources than Harvard Bioscience does. Moreover, these competitors may offer broader product lines and tactical discounts, and may have greater name recognition. In addition, Harvard Bioscience may face competition from new entrants into the field. Harvard Bioscience may not have the financial resources, technical expertise or marketing, distribution or support capabilities to compete successfully in the future.

If Harvard Bioscience is unable to effectively protect its intellectual property, third parties may use its technology, which would impair Harvard Bioscience's ability to compete in its markets.

Harvard Bioscience's continued success will depend in significant part on its ability to obtain and maintain meaningful patent protection for certain of its products throughout the world. Patent law relating to the scope of claims in the technology fields in which Harvard Bioscience operates is still evolving. The degree of future protection for Harvard Bioscience's proprietary rights is uncertain. Harvard Bioscience owns eleven U.S. patents and has eight patent applications pending in the U.S. Harvard Bioscience also owns numerous U.S. registered trademarks and trade names and has applications for the registration of trademarks and trade names pending. Harvard Bioscience's presently pending or future patent applications may not issue as patents, and any patent previously issued to Harvard Bioscience may be challenged, invalidated, held unenforceable or circumvented. Furthermore, the claims in patents which have been issued or which may be issued to Harvard Bioscience in the future may not be sufficiently broad to prevent third parties from producing competing products similar to Harvard Bioscience's products. In addition, the laws of various foreign countries in which Harvard Bioscience competes may not protect its intellectual property to the same extent as do the laws of the United States. If Harvard Bioscience fails to obtain adequate patent protection for its proprietary technology, its ability to be commercially competitive will be materially impaired.

In addition to patent protection, Harvard Bioscience also relies on protection of trade secrets, know-how and confidential and proprietary information. To maintain the confidentiality of trade-secrets and proprietary information, Harvard Bioscience generally seeks to enter into confidentiality agreements with its employees, consultants and strategic partners upon the commencement of a relationship. However, Harvard Bioscience 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 Harvard Bioscience's 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 Harvard Bioscience's trade secrets and other proprietary information would impair its competitive advantages and could have a material adverse effect on its operating results, financial condition and future growth prospects.

Harvard Bioscience may be involved in lawsuits to protect or enforce its patents that would be expensive and time-consuming.

In order to protect or enforce its patent rights, Harvard Bioscience may initiate patent litigation against third parties. Harvard Bioscience 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 Harvard Bioscience's products are based on patents that are closely surrounded by patents held by competitors or potential competitors. As a result, Harvard Bioscience believes there is a greater likelihood of a patent dispute than would be expected if its patents were not closely

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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 Harvard Bioscience's technical and management personnel from their normal responsibilities. Harvard Bioscience may not prevail in any of these suits. An adverse determination of any litigation or defense proceedings could put Harvard Bioscience's patents at risk of being invalidated or interpreted narrowly and could put its 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 Harvard Bioscience's 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 Harvard Bioscience's stock to decline.

Harvard Bioscience's success will depend partly on its ability to operate without infringing on or misappropriating the intellectual property rights of others.

Harvard Bioscience 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 Harvard Bioscience does not prevail in any intellectual property litigation, in addition to any damages it might have to pay, Harvard Bioscience could be required to stop the infringing activity, or obtain a license to or design around the intellectual property in question. If Harvard Bioscience is unable to obtain a required license on acceptable terms, or is unable to design around any third party patent, Harvard Bioscience may be unable to sell some of its products and services, which could result in reduced revenue.

AmiKa Corporation, whose assets Harvard Bioscience purchased in July 2000, received and responded to correspondence from counsel to a third party competitor regarding the possible infringement by it of a patent and other pending patent applications held by such third party. Because this competitor has not pursued this matter since AmiKa's reply on June 7, 2000 in which AmiKa stated that it did not believe it was infringing on this competitor's patents, Harvard Bioscience believes that this matter has been concluded. However, Harvard Bioscience cannot assure you that this third party competitor will not assert these or similar claims in the future. Harvard Bioscience does not currently derive a significant portion of its revenue from products which depend on the intellectual property related to this alleged infringement.

Changes in accounting for goodwill amortization may have a material adverse effect on Harvard Bioscience.

Harvard Bioscience has historically amortized goodwill purchased in its acquisitions on a straight-line basis ranging from five to 15 years. Upon the adoption of SFAS No. 142, "Goodwill and Other Intangible Assets," goodwill and intangible assets with indefinite lives from acquisitions after June 30, 2001 and existing as of December 31, 2001 will not be amortized, but instead will be evaluated annually to determine whether any portion of the remaining balance of goodwill 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 Harvard Bioscience's goodwill is impaired, Harvard Bioscience will be required to write off that portion of its goodwill which could have an adverse effect on net income for the period in which the write off occurs. At June 30, 2002, Harvard Bioscience had unamortized goodwill of \$20.8 million, or 25% of its total assets.

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Harvard Bioscience is dependent upon its licensed technologies and may need to obtain additional licenses in the future to offer its products and remain competitive.

Harvard Bioscience has licensed key components of its technologies from third parties. While it does not currently derive a material portion of its revenue from products that depend on these licensed technologies, Harvard Bioscience may in the future. If its license agreements were to terminate prematurely or if it breaches the terms of any licenses or otherwise fails to maintain its rights to these technologies, Harvard Bioscience may lose the right to manufacture or sell its products that use these licensed technologies. In addition, Harvard Bioscience may need to obtain licenses to additional technologies in the future in order to keep its products competitive. If it fails to license or otherwise acquire necessary technologies, Harvard Bioscience may not be able to develop new products that it needs to remain competitive.

Many of Harvard Bioscience's current and potential customers are from the pharmaceutical and biotechnology industries and are subject to risks faced by those industries.

Harvard Bioscience derives a substantial portion of its revenues from pharmaceutical and biotechnology companies. Harvard Bioscience expects that pharmaceutical and biotechnology companies will continue to be its major source of revenues for the foreseeable future. As a result, Harvard Bioscience is 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 Harvard Bioscience 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 Harvard Bioscience's products, Harvard Bioscience's 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 Harvard Bioscience's products, and Harvard Bioscience's business and results of operations could be materially adversely affected.

In addition, Harvard Bioscience is 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 of various governments and government agencies. Many of Harvard Bioscience's 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 Harvard Bioscience's products were to decrease, Harvard Bioscience's business and results of operations could be materially adversely affected.

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Current negative economic trends may adversely impact Harvard Bioscience's business.

Harvard Bioscience may experience reduced demand for its products as a result of the recent downturn and increased uncertainty in the general economic environment in which Harvard Bioscience and its customers operate. Harvard Bioscience cannot project the extent of the impact of the recent economic downturn. If economic conditions worsen or if a wider economic slowdown occurs, Harvard Bioscience may experience a material adverse effect on its business, operating results, and financial condition.

Harvard Bioscience's business is subject to economic, political and other risks associated with international revenues and operations.

Since Harvard Bioscience manufactures and sells its products worldwide, its business is subject to risks associated with doing business internationally. Harvard Bioscience's revenues from its non-U.S. operations represented approximately 60% of total revenues for the year ended December 31, 2001. Harvard Bioscience anticipates that revenue from international operations will continue to represent a substantial portion of total revenues. In addition, a number of Harvard Bioscience's manufacturing facilities and suppliers are located outside the United States. Accordingly, Harvard Bioscience's 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 \$100,000 and a reduction of foreign equity of approximately \$235,000 for the year ended December 31, 2001,

changes in a specific country's or region's political or economic conditions, including Western Europe, 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 the unenforceability of non-competition agreements in the United Kingdom.

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

Harvard Bioscience's revenues may vary from quarter to quarter due to a number of factors, including the timing of catalog mailings and new product introductions, future acquisitions and its substantial sales to European customers, who in summer months often defer purchases. Therefore, Harvard Bioscience expects revenues from European sales to be lower during the summer season and as a result quarter-to-quarter revenues will likely experience fluctuations. With the acquisition of Union Biometrica in May 2001, an increasing portion of Harvard Bioscience's revenues may result from sales of relatively high-priced products. 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 Harvard Bioscience's stock price. In particular, delays or reduction in purchase orders from the pharmaceutical and biotechnology industries could have a material adverse effect on Harvard Bioscience, as more fully described elsewhere in these risk factors.

Harvard Bioscience may lose money when it exchanges foreign currency received from international revenues into U.S. dollars.

For the year ended December 31, 2001, approximately 60% of Harvard Bioscience's business was conducted in currencies other than the U.S. dollar, which is its reporting currency. As a result, currency fluctuations among the U.S. dollar and the currencies in which Harvard Bioscience does business have caused and will continue to cause foreign currency transaction gains and losses. Currently, Harvard Bioscience attempts to manage foreign currency risk through the matching of assets and liabilities. In the future, Harvard Bioscience may undertake to manage foreign currency risk through additional hedging methods. Harvard Bioscience recognizes foreign currency gains or losses arising from its operations in the period incurred. Harvard Bioscience cannot guarantee that it will be successful in managing foreign currency risk or in predicting the effects of exchange rate fluctuations upon its future operating results because of the number of currencies involved, the variability of currency exposure and the potential volatility of currency exchange rates.

If it engages in any acquisition, Harvard Bioscience will incur a variety of costs, and may never realize the anticipated benefits of the acquisition.

Harvard Bioscience's business strategy includes the future acquisition of businesses, technologies, services or products that it believes are a strategic fit with its business. If Harvard Bioscience does 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 its business. Moreover, Harvard Bioscience may fail to realize the anticipated benefits of any acquisition as rapidly as expected or at all. Future acquisitions could reduce stockholders' ownership, cause Harvard Bioscience to incur debt, expose it to future liabilities and result in amortization expenses related to intangible assets with definite lives.

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

Harvard Bioscience's success is highly dependent on the continued services of key management, technical and scientific personnel. Harvard Bioscience's 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 technical or scientific staff may significantly delay or prevent the achievement of product development and other business objectives. Harvard Bioscience maintains key person life insurance on Messrs. Graziano and Green. Harvard Bioscience's future success will also depend on its ability to identify, recruit and retain additional qualified scientific, technical and managerial personnel. Competition for qualified personnel in the technology area is intense, and Harvard Bioscience operates 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 it is unable to hire and retain a sufficient number of qualified employees, Harvard Bioscience's ability to conduct and expand its business could be seriously reduced.

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Harvard Bioscience plans significant growth, and there is a risk that it will not be able to manage this growth.

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

Harvard Bioscience's 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 Harvard Bioscience's 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 its 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,

downward revisions in securities analysts' estimates or management guidance,

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 Harvard Bioscience's common stock.

In addition, the stock market in general, and the Nasdaq National Market and the biotechnology industry market in particular, have experienced significant price and volume fluctuations that at times 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 Harvard Bioscience's common stock, regardless of its 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 Harvard Bioscience could result in substantial costs, potential liabilities and the diversion of management's attention and resources.

Provisions of Delaware law and of Harvard Bioscience's charter and bylaws may make a takeover more difficult which could cause its stock price to decline.

Provisions in Harvard Bioscience's 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. Harvard Bioscience also has 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 Harvard Bioscience's management and board of directors. Such provisions may also limit the price that investors might be willing to pay for shares of Harvard Bioscience's common stock in the future.

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Failure to raise additional capital or generate the significant capital necessary to expand its operations and invest in new products could reduce Harvard Bioscience's ability to compete and result in lower revenue.

Harvard Bioscience anticipates that its existing capital resources will enable it to maintain currently planned operations for the foreseeable future. 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, Harvard Bioscience may need additional funding sooner than anticipated. Harvard Bioscience's inability to raise capital could seriously harm its business and product development efforts.

If Harvard Bioscience raises additional funds through the sale of equity or convertible debt or equity-linked securities, existing percentages of ownership in the company will be reduced. In addition, these transactions may dilute the value of outstanding Harvard Bioscience stock. Harvard Bioscience may issue securities that have rights, preferences and privileges senior to its common stock. If it raises additional funds through collaborations or licensing arrangements, Harvard Bioscience may relinquish rights to certain of its technologies or products, or grant licenses to third parties on terms that are unfavorable. Harvard Bioscience may be unable to raise additional funds on acceptable terms. If future financing is not available or is not available on acceptable terms, Harvard Bioscience may have to curtail operations or change its business strategy.

Future issuance of preferred stock may dilute the rights of Harvard Bioscience's common stockholders.

Harvard Bioscience's 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 Harvard Bioscience's common stock.

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

An active trading market for Harvard Bioscience's common stock may not be sustained.

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

Risks Related to Genomic Solutions

The following matters, among others, may have a material adverse effect on the business, financial condition, liquidity, results of operations or prospects, financial or otherwise, of Genomic Solutions, particularly if the stockholders of Genomic Solutions do not vote to adopt and approve the merger agreement and approve the merger at the special meeting. In addition, many of the following risks will apply to Harvard Bioscience if the merger is completed.

Genomic Solutions has a history of losses and anticipates future losses and negative cash flow.

Genomic Solutions incurred net losses of \$4.0 million for the six months ended June 30, 2002, \$26.1 million for the fiscal year ended December 31, 2001, \$8.9 million for the fiscal year ended December 31, 2000 and \$11.1 million for the fiscal 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' continued 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 and it may become profitable at a different time or it may never become profitable. Even if Genomic Solutions does achieve profitability, it may not sustain or increase profitability on a quarterly or annual basis.

Genomic Solutions may need additional capital to fund its operations, which capital may be unavailable or costly.

Based on its current plans, Genomic Solutions believes that its existing cash and cash equivalents and revenue generated from operations will be sufficient to fund its operating expenses, debt obligations and capital requirements through June 30, 2003. However, if Genomic Solutions is not able to achieve positive cash flow during this period, it may need to raise additional capital to fund its operations. Genomic Solutions may also need to raise additional capital to fund research and development programs, scale up manufacturing activities, to expand sales and marketing capabilities and to fund unforeseen expenses. Many factors, some of which are beyond its control, may determine the timing and amount of funds Genomic Solutions will need, and it may need funds sooner than currently anticipated. Genomic Solutions may be unable to obtain these funds on suitable terms, or at all.

Genomic Solutions' systems and products may fail to maintain or achieve sufficient market acceptance, which would impair its ability to generate sales revenue.

The commercial success of Genomic Solutions' systems and products will depend upon continued and expanding market acceptance of its new and existing DNA microarray, proteomic, and high speed dispensing products by pharmaceutical and biotechnology companies, academic research centers and government research laboratories. Market acceptance depends on many factors, including researchers' belief that Genomic Solutions' systems are an attractive alternative to current technologies for the generation, acquisition, analysis and management of genomic, proteomic and other drug discovery information. These potential customers may be reluctant to accept newer technologies that may require learning new techniques and procedures and abandoning or modifying current methodologies with which they are comfortable and familiar.

The relatively high price of Genomic Solutions' products and services may deter potential customers from buying its systems.

Genomic Solutions' potential customers may be deterred from buying its products due to their cost. Genomic Solutions may be required by competitive forces or for other reasons to discount the price of its products to generate sales. Furthermore, its failure to place sufficient quantities of its systems will have a material adverse effect on its ability to sell consumables. Market acceptance of products could be adversely affected by limited funding available for capital acquisitions by customers, as well as internal obstacles to customer approvals for purchases of products. Because of these and other factors, Genomic Solutions may not be able to maintain or achieve sufficient market acceptance to become profitable.

Genomic Solutions' products will require additional development to remain competitive, which it may be unable to achieve in a timely and cost-effective manner.

While Genomic Solutions' products have been sold commercially, its currently available microarray, proteomic and high speed dispensing products may require design and functional modifications as scientific procedures and methods change. As scientific knowledge advances, Genomic Solutions

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anticipates a need for new instrumentation, software and consumable products. Any future products will require significant development, investment and testing. Genomic Solutions may need to undertake costly and time-consuming efforts to achieve these objectives. It cannot assure you that it will successfully design, develop, manufacture, market or sell any future products in a timely and cost-effective manner, if at all, or that it will be able to sustain or increase sales revenue from its current systems and products.

Concentration of customers may limit Genomic Solutions' market and its ability to achieve sales growth.

Genomic Solutions expects that its customers will be concentrated in a limited number of pharmaceutical and biotechnology companies, academic research centers and government-funded research laboratories that can afford its systems. As a result, its financial performance may depend on large orders from a limited number of customers, and the loss of, or reduction in, purchase orders from its customers will impair its sales. If consolidation trends in the pharmaceutical and biotechnology industries continue, the number of Genomic Solutions' current and potential customers could decrease. If this occurs, its large customers may seek reductions in the prices of products and services based on volume purchases.

If Genomic Solutions fails to achieve and maintain the high manufacturing standards that its products require, or if it is unable to develop additional manufacturing capacity, its commercial opportunity will be reduced or eliminated.

Genomic Solutions' microarray and proteomic systems and high speed dispensing products require careful calibration and precise, high-quality manufacturing. If Genomic Solutions fails to achieve and maintain these high manufacturing standards, including the incidence of manufacturing errors, design defects or component failures, it could experience product recalls or withdrawals, delays or failures in product testing or delivery, cost overruns or other problems that will impair sales. Despite its high manufacturing standards, Genomic Solutions cannot completely eliminate the risk of errors, defects or failures. If it is unable to manufacture its products on a timely basis at acceptable quality and cost and in commercial quantities, or if it experiences unanticipated technological problems or delays in production, Genomic Solutions' commercial opportunity will be reduced or eliminated.

The sales cycle for Genomic Solutions' products is lengthy and it may spend significant time on sales opportunities with no assurance of success.

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

Genomic Solutions depends on third-party suppliers, and any failure to obtain product components from these suppliers in a timely manner will interfere with its ability to produce its products.

The lasers, filters and optics used in Genomic Solutions' GeneTAC Biochip Analyzers, the fluid transport mechanism used in its GeneTAC Hybridization Station, and the valves used in its high speed dispensing products are supplied by a limited group of suppliers. These products accounted for approximately 50% of Genomic Solutions' revenue in 2001 and 59% of Genomic Solutions' revenue in the six months ended June 30, 2002. If Genomic Solutions is unable to obtain these parts from its suppliers, it may be unable to secure an alternative supplier within a reasonable time period, or on commercially reasonable terms, if at all. Genomic Solutions' reliance on outside vendors generally, and a sole or a limited group of suppliers in particular, could also result in reduced control over quality, pricing and time of receipt of materials and components.

Any reduction, delay or termination of government research funding could reduce, or cause timing fluctuations in, Genomic Solutions' sales.

Genomic Solutions depends on revenue derived from sales to researchers, universities, government laboratories and private foundations whose funding may partially depend upon grants from government agencies like the U.S. National Institutes of Health and similar domestic and international agencies. Although the level of research funding has increased during the past several years, these increases may not continue or research funding may be reduced. Government funding of research and development is subject to the political process, which is inherently fluid and unpredictable. Also, government proposals aiming to reduce or eliminate budget deficits have sometimes included reduced allocations or delays or terminations of funding to the National Institutes of Health and other government agencies that fund research and development activities. A reduction in government funding for the National Institutes of Health or other government research agencies could result in lower sales or cause fluctuations in Genomic Solutions' sales and operating results.

As a result of converting its distribution arrangement with PerkinElmer, Inc. to a non-exclusive arrangement, Genomic Solutions' revenues could be adversely affected.

In 2001 Genomic Solutions relied on PerkinElmer, Inc. to exclusively market and sell Genomic Solutions' products in every country except the United States and Japan. For the year 2001, sales by PerkinElmer accounted for approximately 30% of Genomic Solutions' revenue. In November 2001, PerkinElmer completed its acquisition of Packard Biosciences, giving it the opportunity to manufacture and distribute products which are competitive with Genomic Solutions' microarray scanning and high throughput screening products. In January 2002, Genomic Solutions modified its arrangement so that PerkinElmer has the non-exclusive right to market and sell most of Genomic Solutions' products outside of the United States and Japan and non-exclusive rights to distribute limited products in the United States and Japan. If PerkinElmer does not successfully market and sell Genomic Solutions' products in its capacity as a non-exclusive distributor, Genomic Solutions' revenues will be adversely affected.

If Genomic Solutions is unable to find additional distributors to supplement PerkinElmer's efforts, its revenues could be adversely affected.

As a result of the modification of Genomic Solutions' arrangement with PerkinElmer to make PerkinElmer a non-exclusive distributor of its products, Genomic Solutions has more flexibility and control over the distribution of its products in foreign markets while retaining the benefit of having PerkinElmer as a distributor. Genomic Solutions intends to supplement the efforts of PerkinElmer by expanding its direct sales activities in Europe and appointing new distributors in other foreign markets. Because the PerkinElmer relationship was only recently changed, Genomic Solutions has not yet had adequate time to locate, hire and train the appropriate number of new salespersons and distributors and it cannot assure you that it will be able to do so. If Genomic Solutions is not successful in supplementing PerkinElmer's sales efforts with direct sales efforts and new distributors, its revenues will be adversely affected.

The risks associated with maintaining international operations could adversely affect Genomic Solutions' business.

The sale and manufacture of Genomic Solutions' products internationally involve a number of risks, including:

difficulties in staffing and managing foreign operations;

costs and risks of deploying systems in foreign countries;

changes in regulatory requirements;

licenses, tariffs and other trade barriers;

limited protection of intellectual property rights;

the burden of complying with a wide variety of complex foreign laws and treaties;

potentially adverse tax consequences; and

political and economic instability.

Genomic Solutions' international operations also will be subject to the risks associated with the imposition of legislation and regulations relating to the import or export of high-technology products. Tariffs or restrictions upon the importation or exportation of Genomic Solutions' products may be implemented by the United States or other countries which will adversely affect its ability to sustain or increase its international sales.

Genomic Solutions is subject to foreign currency fluctuations which may affect its operating results.

A significant portion of Genomic Solutions' business historically has been conducted in currencies other than the U.S. dollar, which is Genomic Solutions' reporting currency. Genomic Solutions' agreement with PerkinElmer requires payment in U.S. currency. Currently, only Genomic Solutions' business in Japan and the U.K. is conducted in foreign currencies. Japan and the U.K. represented approximately 20% of Genomic Solutions' total revenue in fiscal year 2001 and may continue to represent a large portion of its total sales. As Genomic Solutions establishes direct sales forces in foreign markets, some of its business may be conducted in foreign currencies. Currency fluctuations among the U.S. dollar and the currencies in which Genomic Solutions will do business will cause foreign currency transaction gains and losses in the period incurred. Genomic Solutions cannot predict the effects of exchange rate fluctuations upon its future operating results because of the variability of currency exchange rates. Genomic Solutions may choose to engage in foreign exchange hedging transactions to manage its foreign currency exposure, but its strategies may not adequately protect its operating results from the effects of exchange rate fluctuations and may expose its business to additional risk and loss.

If Genomic Solutions is unable to retain its core employee base and hire skilled scientists, technicians and other key personnel, its ability to develop and manufacture its products and provide its services could suffer.

In September of 2001, and July of 2002, Genomic Solutions implemented separate restructuring plans that included significant reductions in the number of Genomic Solutions' employees. Genomic Solutions' ability to adequately service its customers will depend, in large part, on its ability to retain its remaining employee base and hire new scientists and technicians with the skills necessary to keep pace with continuing changes in genomic and proteomic research and high throughput dispensing. Genomic Solutions believes that it faces risks associated with employee attrition based on its recent restructuring and the general downturn in the economy. Genomic Solutions believes that its recent reductions in work force could make it difficult to retain its remaining employees and hire new employees as needed. Any failure to retain this base or hire and train new qualified personnel would seriously damage Genomic Solutions' business.

If Genomic Solutions is unable to efficiently integrate and operate recent acquisitions, its business could be harmed.

Genomic Solutions acquired Cartesian Technologies, Inc. in December 2001. It has also acquired numerous other businesses, complementary technologies and product lines in the last several years. The

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rapid growth associated with these acquisitions and the difficulties Genomic Solutions has experienced in integrating these businesses has placed, and will continue to place, a significant strain on Genomic Solutions' systems, controls and managerial resources. The management team of Genomic Solutions has expended significant time and effort in integrating the operations of acquired businesses. It expects to continue to expend significant resources in integrating those companies. If it does not accomplish these tasks, Genomic Solutions' financial condition and

results of operations may be materially and adversely affected.

Genomic Solutions' stock price may be volatile and may lead to losses by investors and result in securities litigation.

The trading price of Genomic Solutions common stock may be subject to wide fluctuation. Between its initial public offering on May 5, 2000 and the conversion of all of its callable common stock to common stock on April 18, 2001, the per share sales price of Genomic Solutions callable common stock on the Nasdaq National Market fluctuated from a low of \$1.906 to a high of \$30.125. Between April 19, 2001, and September 16, 2002, the per share sales price of Genomic Solutions common stock on the Nasdaq National Market fluctuated from a low of \$.37 to a high of \$5.42.

Factors that might cause the market price of Genomic Solutions common stock to fluctuate include:

changes in Genomic Solutions' business or results of operation;

delisting of Genomic Solutions' common stock from the Nasdaq National Market;

quarterly variations in operating results or growth rates;

changes in estimates or recommendations by securities analysts;

market conditions related to investor interest in life science and biotechnology stocks;

general conditions in the industry;

announcements of mergers and acquisitions and other actions by competitors;

regulatory and judicial actions;

general economic conditions; and

announcements of product developments and other events.

In addition, the stock market in general, and the Nasdaq National Market and the biotechnology industry market in particular, have experienced significant price and volume fluctuations that at times have been unrelated or disproportionate to the operating performance of the companies whose stock is traded on those markets. These broad market and industry factors may seriously harm the market price of Genomic Solutions' common stock, regardless of its 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 Genomic Solutions could result in substantial costs, potential liabilities and the diversion of management's attention and resources.

Genomic Solutions' market price may be negatively impacted if the merger with Harvard Bioscience is not concluded.

On July 17, 2002, Genomic Solutions entered into the merger agreement with Harvard Bioscience. Consequently, Genomic Solutions believes its stock price has begun to take into account the likelihood of the merger being concluded. Failure to consummate this merger may have a significant negative impact on the trading price of Genomic Solutions' common stock. While Genomic Solutions is working to complete the merger during the fourth quarter of calendar year 2002, the consummation of the

merger is subject to approval of the transaction by Genomic Solutions' stockholders and other customary closing conditions, many of which are beyond Genomic Solutions' control.

Genomic Solutions' common stock may be delisted from the Nasdaq National Market.

The Nasdaq stock market has notified Genomic Solutions that Genomic Solutions currently fails to meet the maintenance standards for continued listing on the Nasdaq National Market. As a result, Genomic Solutions' common stock is subject to delisting. Genomic Solutions is in the process of filing an appeal with Nasdaq and will continue to be listed on the Nasdaq National Market pending the resolution of this appeal. Genomic Solutions believes that the market price for its common stock may be adversely affected as a result of its failure to continue to be listed on the Nasdaq National Market.

The recent economic downturn may adversely affect Genomic Solutions' business.

Genomic Solutions' ability to sell its products depends upon the general economic environment in which its customers operate. The recent economic downturn could cause longer sales cycles and slower growth. In addition, Genomic Solutions' business depends upon personal interactions of its sales force and customers. Typically before a sale is consummated, the customer visits Genomic Solutions' facilities to receive a demonstration of the products. As a result of the economic downturn many customers have curtailed travel. If Genomic Solutions' customers are unwilling to travel by air, its sales could be adversely affected.

Genomic Solutions does not expect to pay any dividends in the foreseeable future.

Genomic Solutions has never paid dividends on its common stock and it does not anticipate paying cash dividends in the foreseeable future. It intends to retain any earnings to finance the development of its business and, consequently, may never pay cash dividends.

Genomic Solutions and its customers are subject to significant technological uncertainty which could result in reduced acceptance and demand for Genomic Solutions' products.

Genomic Solutions' products, and the research for which they are predominately used, involve several new and complex technologies. The instrumentation and software that comprise Genomic Solutions' systems have only recently been used in commercial applications. Scientists and technicians using Genomic Solutions' products require new technical skills and training and may experience difficulties with the products. As the products continue to be used, it is possible that previously unrecognized defects will emerge. Further, in order for Genomic Solutions to address new applications for its products, it may have to add features and design new software. If it is unable to validate or achieve the improvements in its products necessary for their continued successful commercialization, the demand for its products will suffer.

The outcomes of research based on technologies using Genomic Solutions' products will be subject to the risks of failure inherent in the development of new technologies. These risks include the possibility that:

any products based on these technologies are ineffective, unreliable or unsafe, or otherwise fail;

producers will be unable to manufacture the products on a large scale or market the products economically;

proprietary rights of third parties will preclude the marketing of the products; and

third parties will market equivalent or superior products.

The failure of research and development activities using Genomic Solutions' products to result in commercially viable products could reduce the demand for those products.

Genomic Solutions faces intense competition which could result in reduced acceptance and demand for its products.

The genomic, proteomic and high throughput screening markets are intensely competitive, highly fragmented and rapidly changing. Genomic Solutions competes with many companies in the United States and abroad that are engaged in the development and production of products that analyze genomic and proteomic information and equipment used for high speed dispensing. Currently, Genomic Solutions' principal competition comes from established companies and organizations providing products that use existing technologies which perform many of the same functions for which Genomic Solutions markets its systems. These products include a variety of established assays and tests, including gel-based technologies. Future competition in the genomic, proteomic and high throughput screening fields will likely come from existing competitors as well as other companies seeking to develop new technologies for these markets. In addition, pharmaceutical and biotechnology companies have significant needs for genomic and proteomic information and high speed dispensing equipment and may choose to develop or acquire competing technologies to meet these needs. If Genomic Solutions is unable to compete effectively, there will be reduced acceptance of and demand for its products.

Many of Genomic Solutions' competitors have greater financial, technical, research, marketing, sales, distribution, service and other resources than Genomic Solutions does. Moreover, its competitors may have greater name recognition and more extensive customer bases than it does, and they may offer discounts as a competitive tactic. In addition, several development-stage companies are currently producing or developing products that compete with or will compete with Genomic Solutions' products. Genomic Solutions' competitors may develop or market technologies or products that are more effective or commercially attractive than Genomic Solutions' current or future products, or that may render its technologies and products obsolete.

Genomic Solutions may be involved in lawsuits to protect or enforce its patents, which would be expensive and, if Genomic Solutions loses, may cause it to lose some of its intellectual property rights, which would reduce its ability to compete in the market.

Genomic Solutions' success will depend on its ability to obtain and protect patents on its technology and to protect its trade secrets. Genomic Solutions' issued and future patents may not afford meaningful protection for its technology and products. Others may challenge those patents and, as a result, the patents could be narrowed, invalidated or unenforceable. In addition, Genomic Solutions' current and future patent applications may not result in the issuance of patents in the United States or foreign countries. Competitors may develop similar products that do not conflict with Genomic Solutions' patents. Competitors may have filed applications or obtained patents or proprietary rights competitive with or similar to those of Genomic Solutions. In order to protect or enforce its patent rights, Genomic Solutions may initiate patent litigation which would be expensive, take significant time and divert management's attention from other business concerns. The patent position of biotechnology firms generally is highly uncertain, involves complex legal and factual questions, and has recently been the subject of much litigation. No consistent policy has emerged from the U.S. Patent and Trademark Office or the courts regarding the breadth of claims allowed or the degree of protection afforded under biotechnology patents. In addition, there is a substantial backlog of biotechnology patent applications at the U.S. Patent and Trademark Office, and the approval or rejection of patent applications may take several years.

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The rights Genomic Solutions relies upon to protect the intellectual property underlying its products may not be adequate, which could enable third parties to use Genomic Solutions' technology, reducing its ability to compete in the market.

Genomic Solutions relies on trade secret protection for some of the confidential and proprietary information for which it has not sought patent protection. Genomic Solutions believes that it has developed proprietary technology and processes relating to numerous aspects of its micro-array, proteomic and high throughput systems. Genomic Solutions has taken measures to protect its proprietary technologies and processes and continues to explore ways to enhance these protections. It requires its employees, consultants and advisors to execute confidentiality agreements. However, Genomic Solutions cannot guarantee that these agreements will provide adequate protection against improper use or disclosure of confidential information. Further, others may independently develop substantially equivalent proprietary information and techniques, or otherwise gain access to Genomic Solutions' trade secrets.

Genomic Solutions' success depends on its ability to operate without infringing or misappropriating the proprietary rights of others.

Genomic Solutions cannot be certain that U.S. or foreign patents or patent applications of other companies do not exist or will not be issued that would materially and adversely affect its ability to commercialize its products. Genomic Solutions may be sued for infringing or misappropriating the patent or other intellectual property rights of others. Intellectual property litigation is costly, even if Genomic Solutions prevails. In addition, litigation is time consuming and could divert management attention and resources away from Genomic Solutions' business. If Genomic Solutions does not prevail in any litigation, in addition to any damages it might have to pay, it could be required to stop the infringing activity or obtain a license requiring royalty payments. Any required license may not be available to Genomic Solutions on acceptable terms, or at all. In addition, some licenses may be non-exclusive, and therefore, Genomic Solutions' competitors may have access to the same technology licensed to it. If Genomic Solutions fails to obtain a required license or is unable to design around a patent which it infringes, it may be unable to sell some of its products.

Ethical concerns surrounding the use of genomic information and misunderstanding of the nature of its business could adversely affect Genomic Solutions' ability to develop and sell its 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. Genomic Solutions' 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, Genomic Solutions' products and the processes for which its 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 Genomic Solutions' customers to discontinue the research and development initiatives for which Genomic Solutions' products are used.

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Genomic Solutions may not have adequate insurance, and if it is subject to product liability claims, it may experience reduced demand for its products or be required to pay damages that exceed its insurance limitations.

Product liability claims asserted against Genomic Solutions, regardless of their merit or potential outcome, may adversely affect Genomic Solutions' reputation, result in reduced demand for its products and make it more difficult for Genomic Solutions to expand its business. Also, Genomic Solutions cannot assure you that its current insurance policies will adequately protect it or that it can or will maintain its insurance policies on commercially acceptable terms, or at all.

Genomic Solutions' former independent public accountant, Arthur Andersen LLP, has been found guilty of federal obstruction of justice charges and you are unlikely to be able to exercise effective remedies against them in any legal action.

Although Genomic Solutions has dismissed Arthur Andersen LLP as its independent public accountants and engaged KPMG LLP, its consolidated financial statements as of and for the fiscal years ended December 31, 2001, 2000, 1999, 1998 and 1997 were audited by Arthur Andersen LLP. On March 14, 2002, Arthur Andersen was indicted on federal obstruction of justice charges arising from the government's investigation of Enron Corporation. On June 15, 2002, a jury in Houston, Texas found Arthur Andersen guilty of these federal obstruction of justice charges. In light of the jury verdict and the underlying events, Arthur Andersen has informed the Securities and Exchange Commission that it will cease practicing before the Securities and Exchange Commission by August 31, 2002, unless the Securities and Exchange Commission determines another date is appropriate. A substantial number of Arthur Andersen LLP's personnel have already left the firm, including the individuals responsible for auditing Genomic Solutions' audited consolidated financial statements included in this proxy statement and prospectus, and substantially all remaining personnel are expected to do so in the near future. Because it is unlikely that Arthur Andersen LLP will survive, you are unlikely to be able to exercise effective remedies or collect judgments against them. In addition, Arthur Andersen LLP has not consented to the inclusion of their report in this proxy statement and prospectus, and the requirement to file their consent has been dispensed with in reliance on Rule 437a under the Securities Act. Because Arthur Andersen LLP has not consented to the inclusion of their report in this proxy statements audited by Arthur Andersen LLP or any omissions to state a material fact contained in the consolidated financial statements audited by Arthur Andersen LLP or any omissions to state a material fact required to be stated in those consolidated financial statements.

Moreover, as a public company, Genomic Solutions is required to file with the Securities and Exchange Commission periodic consolidated financial statements audited or reviewed by an independent public accountant. The Securities and Exchange Commission has said that it will continue accepting financial statements audited by Arthur Andersen LLP on an interim basis without a reissued audit report so long as a reasonable effort is made to have Arthur Andersen LLP reissue its reports and to obtain a manually signed accountant's report from Arthur Andersen LLP. Arthur Andersen LLP is no longer able to reissue its audit reports on Genomic Solutions because both the partner and the audit manager who were assigned to Genomic Solutions' account have left the firm. In addition, Arthur Andersen LLP is unable to perform procedures to assure the continued accuracy of its report on Genomic Solutions' audited consolidated financial statements incorporated by reference in this proxy statement and prospectus. Arthur Andersen LLP will also be unable to perform such procedures or to provide other information or documents that would customarily be received by Genomic Solutions or underwriters in connection with financings or other transactions, including consents and "comfort" letters. As a result, Genomic Solutions may encounter delays, additional expense and other difficulties in future financings. Any resulting delay in accessing or inability to access the public capital markets could have a material adverse effect on Genomic Solutions.

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CAUTIONARY STATEMENTS REGARDING FORWARD-LOOKING STATEMENTS IN THIS PROXY STATEMENT AND PROSPECTUS

This proxy statement and prospectus and the documents incorporated by reference into this proxy statement and prospectus contain forward-looking statements about Harvard Bioscience within the meaning of Section 27A of the Securities Act and Section 21E of the Securities Exchange Act of 1934, as amended. Statements about Harvard Bioscience containing the words "believes," "anticipates," "estimates," "expects" and words of similar import, constitute forward-looking statements that involve risks and uncertainties. Such statements are based on current expectations and are subject to risks, uncertainties and changes in condition, significance, value and effect, including those discussed in the section entitled "Risk Factors" beginning on page 21 of this proxy statement and prospectus, and reports filed by Harvard Bioscience with the Securities and Exchange Commission, specifically forms 8-K, 10-K and 10-Q. Such risks, uncertainties and changes in condition, significance, value and effect could cause Harvard Bioscience's actual results to differ materially from those anticipated events. In evaluating the merger agreement and the merger, you should carefully consider the discussion of risks and uncertainties discussed in the section entitled "Risk Factors" beginning on page 21 of this proxy statement and prospectus.

This proxy statement and prospectus also contains forward-looking statements about Genomic Solutions, Genomic Solutions' financial condition, plans, objectives, future performance, results of operations and business. Words such as "anticipates," "expects," "intends," "plans," "believes," "seeks," "estimates," "will," "may," "should," "projects," "predicts," "continues" and similar expressions or the negative of these terms identify these forward-looking statements. This proxy statement and prospectus also includes forward-looking statements about the consummation and anticipated timing of the merger, the actual conversion ratio for Genomic Solutions common stock in the merger and the tax-free nature of the merger.

Although Genomic Solutions believes that its plans, intentions and expectations as reflected in or suggested by these forward-looking statements are reasonable, it can give no assurance that the plans, intentions or expectations will be achieved. Genomic Solutions stockholders are cautioned that all forward-looking statements involve risks and uncertainties and actual results may differ materially from those discussed as a result of various risk factors described in the section entitled "Risk Factors Risks Related to Genomic Solutions" beginning on page 34 of this proxy statement and prospectus. Listed below and discussed elsewhere in this proxy statement and prospectus are some important risks, uncertainties and contingencies which could cause Genomic Solutions' actual results, performances or achievements to be materially different from the forward-looking statements made in this proxy statement and prospectus, particularly if the merger with Harvard Bioscience is not completed. These risks, uncertainties and contingencies include, but are not limited to, the following:

anticipated revenues and expenses;

possible price competition and erosion;

expansion into new markets;

future sales mix;

gross margins;

customers;

future developments involving certain investments;

future availability of financings; and

the receipt of stockholder and other approvals of the merger with Harvard Bioscience.

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In addition, events may occur in the future that Genomic Solutions is not able to accurately predict or control and that may cause actual results to differ materially from the expectations described in these forward-looking statements.

Readers should not place undue reliance on Genomic Solutions' forward-looking statements contained in this proxy statement and prospectus. These forward-looking statements speak only as of the date on which the statements were made. In evaluating forward-looking statements, you should consider these risks and uncertainties, together with the other risks described from time to time in Genomic Solutions' reports and documents filed with the Securities and Exchange Commission.

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THE SPECIAL MEETING OF GENOMIC SOLUTIONS STOCKHOLDERS

Genomic Solutions is furnishing this proxy statement and prospectus to all stockholders of record of Genomic Solutions common stock in connection with the solicitation of proxies by the Genomic Solutions board of directors for use at the special meeting of Genomic Solutions stockholders to be held on October 24, 2002, and at any adjournment or postponement of the special meeting. This proxy statement and prospectus also is being furnished by Harvard Bioscience to Genomic Solutions stockholders as a prospectus for Harvard Bioscience common stock to be issued in connection with the merger.

Date, Time and Place of the Special Meeting

The special meeting will be held at The Crowne Plaza Hotel, 610 Hilton Boulevard, Ann Arbor, Michigan 48108 on October 24, 2002, at 9:00 a.m., local time.

Purpose of the Special Meeting

At the special meeting, and any adjournment or postponement of the special meeting, Genomic Solutions stockholders will be asked:

1.

to consider and vote upon a proposal to adopt and approve the merger agreement and approve the merger; and

to transact any other business that may properly come before the special meeting and any adjournment or postponement of the special meeting.

A copy of the merger agreement is attached to this proxy statement and prospectus as Annex A. Genomic Solutions stockholders are encouraged to read the merger agreement in its entirety and the other information contained in this proxy statement and prospectus carefully before deciding how to vote.

Record Date

The Genomic Solutions board of directors has fixed the close of business on September 19, 2002, as the record date for determination of Genomic Solutions stockholders entitled to notice of and to vote at the special meeting.

Vote Required for Adoption and Approval of the Merger Agreement and Approval of the Merger

As a condition to completion of the merger, the Delaware General Corporation Law and the merger agreement require that the holders of a majority of the outstanding voting shares of Genomic Solutions as of the record date must vote to adopt and approve the merger agreement and approve the merger. Each share of Genomic Solutions common stock entitles the holder to one vote per share with respect to the merger agreement and the merger. There are no other voting securities of Genomic Solutions.

As of the close of business on September 16, 2002, the most recent practicable date prior to the date of this proxy statement and prospectus, 31,257,198 shares of Genomic Solutions common stock were outstanding, and held by approximately 141 stockholders of record.

^{2.}

As of the close of business on September 16, 2002, the most recent practicable date prior to the date of this proxy statement and prospectus, directors and executive officers of Genomic Solutions (and their respective affiliates) collectively owned approximately 38% of the outstanding shares of Genomic Solutions common stock entitled to vote at the special meeting on the merger agreement and the merger.

All of Genomic Solutions' directors and certain of its affiliates and executive officers have entered into voting agreements and delivered irrevocable proxies, pursuant to which they have agreed to vote their Genomic Solutions shares in favor of adoption and approval of the merger agreement and approval of the merger, in favor of any matter that would be expected to facilitate the merger, and against any matter that would be expected to result in a breach by Genomic Solutions of the merger agreement or that would be expected to result in Genomic Solutions' obligations under the merger agreement not being fulfilled. At the close of business on September 16, 2002, these directors, officers and affiliates collectively owned approximately 38% of the outstanding shares of Genomic Solutions common stock entitled to vote at the special meeting, all of which are subject to the voting agreements.

Quorum, Abstentions and Broker Non-Votes

A majority of all voting shares of Genomic Solutions issued and outstanding as of the record date, represented in person or by proxy, constitutes a quorum for the transaction of business at the special meeting. Genomic Solutions has appointed Steven J. Richvalsky, Genomic Solutions' Chief Financial Officer, to function as the inspector of elections of the special meeting. The inspector of elections will ascertain whether a quorum is present, tabulate votes and determine the voting results on all matters presented to Genomic Solutions stockholders at the special meeting. If a quorum is not obtained, or fewer voting shares of Genomic Solutions are voted for the adoption and approval of the merger agreement and the approval of the merger than a majority of the voting shares eligible to vote at the special meeting in person or by proxy, the special meeting may be postponed or adjourned for the purpose of allowing additional time for obtaining additional proxies or votes. At any subsequent reconvening of the special meeting, all proxies will be voted in the same manner as the proxies would have been voted at the original convening of the special meeting, except for any proxies that have been effectively revoked or withdrawn prior to the subsequent reconvening of the special meeting.

If you submit a proxy that indicates an abstention from voting on all matters presented at the special meeting, your shares will be counted as present for the purpose of determining the existence of a quorum at the special meeting, but will not be voted on any matter presented at the special meeting. Consequently, your abstention will have the same effect as a vote against the proposal to adopt and approve the merger agreement and to approve the merger. In addition, the failure of a Genomic Solutions stockholder to return a proxy will have the effect of a vote against the proposal to adopt and approve the merger agreement and to approve the merger.

Under the rules that govern brokers who have record ownership of shares that are held in "street name" for their clients who are the beneficial owners of the shares, brokers have discretion to vote these shares on routine matters but not on non-routine matters. The adoption and approval of the merger agreement and the approval of the merger at the special meeting are not considered routine matters. Accordingly, brokers will not have discretionary voting authority to vote your shares at the special meeting. A "broker non-vote" occurs when brokers do not have discretionary voting authority and have not received instructions from the beneficial owners of the shares. At the special meeting, broker non-votes will be counted for the purpose of determining the presence of a quorum but will not be counted for the purpose of determining the number of votes cast on the merger agreement and the merger. Accordingly, at the special meeting, broker non-votes will have the same effect as a vote against the proposal to adopt and approve the merger agreement and to approve the merger. Consequently, **Genomic Solutions stockholders are urged to return the enclosed proxy card marked to indicate their vote.**

Solicitation of Proxies and Expenses

Genomic Solutions will bear its own expenses in connection with the solicitation of proxies for the special meeting, except that Genomic Solutions will pay one-half of all costs and expenses incurred in

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connection with the printing and mailing of this proxy statement and prospectus, and Harvard Bioscience will pay the other half of those costs and expenses.

In addition to solicitation by mail, directors, officers and employees of Genomic Solutions may solicit proxies from stockholders by telephone, facsimile, e-mail or in person. No additional compensation will be paid to these individuals for those services. Some of these individuals may have interests in the merger that are different from, or in addition to, the interests of Genomic Solutions stockholders generally. For more information regarding these interests, see the section entitled "The Merger and Related Transactions Consideration of the Merger by Genomic Solutions' Board of Directors Interests of Genomic Solutions' Directors and Officers in the Merger" beginning on page 64 of this proxy statement and prospectus. Genomic Solutions may retain outside agencies for the purpose of soliciting proxies, in which case Genomic Solutions will pay the fees and expenses of those agencies. Record holders such as brokerage houses, nominees, fiduciaries and other custodians will be requested to forward soliciting materials to beneficial owners and to request authority for the exercise of proxies, and, upon the request of such record holders, they will be reimbursed for their reasonable expenses incurred in sending proxy materials to beneficial owners, which Genomic Solutions anticipates will not exceed \$1,000 in the aggregate.

Voting of Proxies at the Special Meeting and Revocation of Proxies

Genomic Solutions requests that all holders of Genomic Solutions common stock on the record date complete, date and sign the accompanying proxy card and promptly return it in the accompanying envelope or otherwise mail it to Genomic Solutions. Brokers holding voting shares in "street name" may vote the shares only if the beneficial owner provides instructions on how to vote. Brokers will provide directions to beneficial owners on how to instruct your broker to vote the shares. Please note, however, that if the holder of record of your shares is your broker, bank or other nominee and you wish to vote at the special meeting, you must bring a letter from the broker, bank or other nominee confirming that you are the beneficial owner of the shares. All properly executed proxies that Genomic Solutions receives prior to the vote at the special meeting, and that are not revoked, will be voted in accordance with the instructions indicated on the proxy card. If no direction is indicated on such proxies, such proxies will be voted in favor of adoption and approval of the merger agreement and approval of the merger (except for broker non-votes, which are discussed above).

A Genomic Solutions stockholder may revoke a previously submitted proxy at any time prior to its use by:

delivering to the Secretary of Genomic Solutions a later-dated signed notice of revocation;

delivering to the Secretary of Genomic Solutions a later-dated, signed proxy (which will automatically replace any earlier dated proxy card that you returned); or

attending the special meeting and voting in person.

Attendance at the special meeting does not in itself constitute the revocation of a previously submitted proxy.

If your shares are held in "street name," your broker or nominee may permit you to vote by telephone or electronically. Please check your proxy card or contact your broker or nominee to determine whether either of these methods of voting is available to you.

Dissenters' Rights of Appraisal

Under Section 262 of the Delaware General Corporation Law, holders of Genomic Solutions common stock are entitled to dissent from the merger, request a judicial appraisal of the fair value of their shares of Genomic Solutions common stock and, if the merger is consummated and all

requirements of Section 262 are satisfied by Genomic Solutions stockholders seeking to exercise dissenters' rights, to receive payment equal to the fair value of their shares of Genomic Solutions common stock, as determined in the manner set forth under Section 262. Failure to strictly follow the procedures set forth in Section 262 on a timely basis may result in a termination or loss of appraisal rights.

Under Section 262, not less than 20 days prior to the special meeting of Genomic Solutions stockholders to be held on October 24, 2002, at which the merger agreement and the merger will be considered and voted upon, Genomic Solutions must notify each of its stockholders entitled to appraisal rights as of the record date of the special meeting that appraisal rights are available, and include in that notice a copy of Section 262. This proxy statement and prospectus constitutes such notice to the Genomic Solutions stockholders and includes a copy of Section 262 which is attached as Annex C to this proxy statement and prospectus.

Dissenting stockholders who do not wish to accept the merger consideration and who wish to assert their rights to an appraisal of their shares of Genomic Solutions common stock must so notify Genomic Solutions before the taking of the vote on the merger agreement and the merger, by delivering a written demand for appraisal of his or her shares of Genomic Solutions common stock to: Genomic Solutions Inc., 4355 Varsity Drive, Suite E, Ann Arbor, Michigan 48108, Attention: Gary A. Kendra, Secretary. Any written notice from a dissenting stockholder wishing to demand appraisal must be executed by or on behalf of the stockholder of record and must reasonably inform Genomic Solutions of the identity of the stockholder of record and his or her intention to demand appraisal of his or her shares of Genomic Solutions common stock. A proxy or vote against the merger agreement and the merger will not constitute this demand.

Under Section 262, the procedures to obtain appraisal rights must be carried out by and in the name of holders of record of shares of Genomic Solutions common stock. Stockholders who are the beneficial but not the record owners of shares of Genomic Solutions common stock (such as shares held by a broker in "street name" rather than in the name of the beneficial owner thereof) and who wish to exercise such appraisal rights are advised to consult promptly with the record owners as to the timely exercise of appraisal rights and to cause the record owner to make the appropriate demand.

Within 120 days of the effective time of the merger, any dissenting stockholder who has complied with the requirements of Section 262 and who is otherwise entitled to appraisal rights may file a petition in the Delaware Court of Chancery demanding a determination of the "fair" value of the shares of all dissenting stockholders of Genomic Solutions. If a petition for an appraisal is timely filed, the Court of Chancery will hold a hearing, determine which stockholders are entitled to appraisal rights and appraise the shares of Genomic Solutions common stock owned by those stockholders, determining the fair value of their shares, exclusive of any element of value arising from the accomplishment or expectation of the merger, together with a fair rate of interest to be paid, if any, upon the amount determined to be the fair value.

Any dissenting stockholder who has duly demanded an appraisal in compliance with Section 262 will not, after the effective time, be entitled to vote the shares of Genomic Solutions common stock subject to the demand for appraisal for any purpose. The shares of Genomic Solutions common stock subject to the demand for appraisal will not be entitled to dividends or other distributions other than those, if any, payable or deemed to be payable to stockholders of record as of a date prior to the effective time.

For a more detailed discussion of the appraisal rights of Genomic Solutions stockholders and Section 262, see the section entitled "The Merger and Related Transactions Dissenters' Rights of Appraisal" beginning on page 87 of this proxy statement and prospectus and Section 262 of the Delaware General Corporation Law, a copy of which is attached as Annex C to this proxy statement and prospectus.

Other Matters to be Voted on

Genomic Solutions knows of no matters that will be presented for consideration at the special meeting other than those stated in this proxy statement and prospectus. However, if any other matters do properly come before the special meeting, the proxy holders will vote proxies in accordance with their best judgment regarding such matters.

Recommendation of Genomic Solutions' Board of Directors

The Genomic Solutions board of directors has unanimously determined that the merger is advisable, in the best interests of Genomic Solutions stockholders and on terms that are fair to the stockholders of Genomic Solutions. Accordingly, the Genomic Solutions board of directors has unanimously approved the merger agreement and the merger and recommends that stockholders vote FOR adoption and approval of the merger agreement and approval of the merger. In considering such recommendation, Genomic Solutions stockholders should be aware that some Genomic Solutions directors and officers have interests in the merger that are different from, or in addition to, those of Genomic Solutions stockholders. For more information about these interests, see the section entitled "The Merger and Related Transactions Consideration of the Merger by Genomic Solutions' Board of Directors Interests of Genomic Solutions' Directors and Officers in the Merger" beginning on page 64 of this proxy statement and prospectus.

The matters to be considered at the special meeting are of great importance to the stockholders of Genomic Solutions. Accordingly, you are urged to read and carefully consider the information presented in this proxy statement and prospectus, and to complete, date, sign and promptly return the enclosed proxy card in the enclosed postage-paid envelope.

Stockholders should not send any stock certificates with their proxy cards. A transmittal form with instructions for the surrender of Genomic Solutions common stock certificates will be mailed to you promptly following completion of the merger. If you send your stock certificates to either Harvard Bioscience or Genomic Solutions, neither Harvard Bioscience nor Genomic Solutions will assume the risk of loss. For more information regarding the procedures for exchanging Genomic Solutions stock certificates for Harvard Bioscience stock certificates and cash, see the section entitled "The Merger and Related Transactions The Merger Agreement Exchange of Genomic Solutions Stock Certificates For Harvard Bioscience Stock Certificates and Cash" beginning on page 69 of this proxy statement and prospectus.

THE MERGER AND RELATED TRANSACTIONS

The following is a description of the material aspects of the merger and related transactions, including the merger agreement and certain other agreements entered into in connection with the merger agreement. While we believe that the following description covers the material terms of the merger, the merger agreement and the related transactions and agreements, the description may not contain all of the information that is important to you. You should read this entire proxy statement and prospectus and the other documents we refer to carefully for a more complete understanding of the merger and the related transactions. In particular, the following summary of the merger agreement is not complete and is qualified in its entirety by reference to the copy of the merger agreement attached to this proxy statement and prospectus as Annex A and incorporated by reference into this proxy statement and prospectus. You should read the merger agreement carefully and in its entirety for a complete understanding of the terms of the merger and related transactions.

Background of the Merger

The respective management groups of Harvard Bioscience and Genomic Solutions review, on a regular basis, the strategic focus of their companies in light of the rapidly changing competitive environment of the biotechnology industry. An objective of these strategic reviews is to identify opportunities to enhance stockholder value.

On February 7, 2002, the Genomic Solutions board of directors held an informal strategy meeting in Chicago. Among the discussion items were the difficult financial markets, macroeconomic conditions and industry specific conditions, all of which seemed to point to potential consolidation in the life sciences tools industry. The board discussed seeking a merger partner to dramatically improve critical mass as a strong possibility to improve stockholder value.

At the Genomic Solutions quarterly board of directors meeting on March 6, 2002, Edward Lagerstrom, Scott Beardsley and C. Jason Moran of U.S. Bancorp Piper Jaffray ("Piper Jaffray") made a presentation to the board. Piper Jaffray advised the board on market conditions in the life sciences tools industry and presented a list of candidates that potentially would be a good strategic fit for the company in a merger or sale transaction.

On April 16, 2002, the Genomic Solutions board of directors met telephonically to discuss engaging a financial advisor. At that meeting, the Genomic Solutions board of directors established a committee of the board consisting of Jeffrey S. Williams, Genomic Solutions' President and Chief Executive Officer, Damion E. Wicker and Robert G. Shepler to identify possible candidates and make a recommendation to the full board regarding the engagement of a financial advisor.

On April 17, 2002, Chane Graziano, Harvard Bioscience's Chief Executive Officer, and David Green, Harvard Bioscience's President, met with Mr. Lagerstrom of Piper Jaffray to discuss strategic acquisitions of other companies engaged in the life sciences instrumentation fields. Mr. Lagerstrom presented Harvard Bioscience with a list of companies, which included Genomic Solutions. Harvard Bioscience management asked Mr. Lagerstrom to arrange a meeting with the management of Genomic Solutions in order to learn more about the company.

Also on April 17, 2002, the Genomic Solutions board committee met telephonically to discuss possible candidates to serve as Genomic Solutions' financial advisor. The board committee determined that only two candidates had the requisite familiarity with the industry and the Genomic Solutions business.

On April 22, 2002, Messrs. Graziano and Green visited Genomic Solutions' headquarters in Ann Arbor, Michigan. On this visit, the parties entered into a mutual confidentiality agreement to permit the exchange of confidential information for the purpose of evaluating the merits of a possible acquisition of Genomic Solutions by Harvard Bioscience. Mr. Williams discussed with Messrs. Graziano

and Green the business of Genomic Solutions and its financial prospects and business model. Also in attendance at the discussion from Genomic Solutions were Steven J. Richvalsky, Executive Vice President and Chief Financial Officer, and Andrew A. Jakimcius, Executive Vice President Operations. Mr. Green presented an overview of Harvard Bioscience. The meeting was introductory in nature and the parties generally discussed possible joint opportunities. The parties agreed to have further discussions.

On April 29, 2002, the Genomic Solutions board committee met telephonically to interview the two financial advisor candidates, one of which was Piper Jaffray. At that meeting, the committee decided to recommend engaging Piper Jaffray.

At the Genomic Solutions quarterly board of directors meeting on May 1, 2002, Mr. Lagerstrom and Robert DeSutter of Piper Jaffray gave a presentation on potential strategic partners for Genomic Solutions, including those companies engaged in the life sciences field that might be interested in acquiring Genomic Solutions. Because of the prior contact with Harvard Bioscience, Messrs. Lagerstrom and DeSutter provided an overview of Harvard Bioscience in their presentation. They also identified 13 other potential investors in, or acquirors of, Genomic Solutions. Piper Jaffray also discussed several other companies identified by Mr. Williams and the management team. At that meeting, the Genomic Solutions board of directors agreed to retain Piper Jaffray to serve as its financial advisor based upon the board committee's recommendation. The Genomic Solutions board of directors authorized Piper Jaffray to contact the most likely candidates to explore a possible transaction. The board of directors also authorized the engagement of JRW Technology, Inc. to assess Genomic Solutions' business and operations and to recommend alternatives for achieving profitability. Genomic Solutions subsequently entered into a consulting agreement with JRW.

On May 2, 2002, Messrs. Williams and Graziano met telephonically to discuss a potential combination of Harvard Bioscience and Genomic Solutions. Mr. Williams agreed to provide certain business and financial information to Mr. Graziano regarding Genomic Solutions and its operations. That day, Mr. Williams sent to Harvard Bioscience various materials including those which described Genomic Solutions' business and financial position, its products, intellectual property, corporate structure and current financial prospects. On May 3, 2002, Mr. Williams sent additional historical financial information on Genomic Solutions to Messrs. Graziano and Green.

On May 7, 2002, Messrs. Graziano and Green visited the offices of Genomic Solutions' subsidiary, Cartesian Technologies, Inc., in Irvine, California and met with Thomas C. Tisone, Ph.D., and the senior management team at Cartesian. Among other things, the parties discussed possible market synergies between the two companies. Also on May 7, Susan M. Luscinski, Chief Financial Officer of Harvard Bioscience, sent a preliminary due diligence request list to Mr. Williams.

On May 10, 2002, Gary A. Kendra, Genomic Solutions' Executive Vice President and General Counsel, sent certain preliminary due diligence information to Ms. Luscinski.

On May 14 and 15, 2002, Ms. Luscinski visited Genomic Solutions' headquarters in Ann Arbor, Michigan to gain an overview of Genomic Solutions' financial condition and accounting and financial systems. Ms. Luscinski met with Messrs. Williams, Richvalsky and Kendra to discuss the business and operations of the company. Ms. Luscinski also reviewed certain contracts and agreements to which Genomic Solutions was a party and continued to work on preliminary due diligence concerning Genomic Solutions.

On May 15, 2002, Messrs. Williams and Lagerstrom visited Harvard Bioscience's headquarters located in Holliston, Massachusetts. On that visit, Mr. Green gave a presentation about Harvard Bioscience's business and financial prospects and business model.

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On May 17, 2002, Mr. Williams wrote Messrs. Graziano and Green a letter suggesting that a combination of the businesses could have strategic value and benefit the stockholders of Genomic Solutions and Harvard Bioscience and that, in Mr. Williams' view, further discussions should occur.

During May and June 2002, Piper Jaffray had communications with 10 possible acquirors, including Harvard Bioscience. In addition to Harvard Bioscience, Piper Jaffray received a verbal indication of interest from only one other company. After conducting preliminary due diligence and receiving a management presentation, the other company decided not to pursue a potential transaction.

On May 22, 2002, Mr. Williams met telephonically with a representative of White Pines Ventures, LLC, a stockholder of Genomic Solutions, to request that White Pines assist JRW in the performance of its consulting services to Genomic Solutions. On May 29, 2002, by letter to Mr. Kendra, White Pines agreed to render such assistance and to be bound by all of the terms and conditions of the May 22, 2002, consulting agreement between JRW and Genomic Solutions.

On May 28, 2002, Messrs. Williams and Green conferred by telephone and discussed potential terms of a transaction.

During the first week of June, Messrs. Graziano and Green and Ms. Luscinski engaged in numerous discussions amongst themselves concerning the terms of an offer to acquire Genomic Solutions. Messrs. Graziano and Green discussed preliminary terms of a business combination transaction with Genomic Solutions' financial advisor. Also during this period, Mr. Green spoke with Messrs. Williams and Richvalsky regarding the recent financial and operating results of Genomic Solutions.

On June 5, 2002, Mr. Graziano visited Genomic Solutions' facilities in the United Kingdom.

On June 7, 2002, Messrs. Graziano and Green verbally indicated to Mr. Lagerstrom that they were prepared to negotiate the acquisition of Genomic Solutions for \$10,000,000 cash plus 3,000,000 shares of Harvard Bioscience common stock. On June 11, 2002, Mr. Green provided Messrs. Williams and Lagerstrom with a summary of the business rationale for Harvard Bioscience's proposal to acquire Genomic Solutions at this price. The proposal took into account Genomic Solutions' intention to implement a cost reduction restructuring plan prior to the time of the transaction. Mr. Lagerstrom subsequently informed Harvard Bioscience that this offer was not acceptable to Genomic Solutions.

Subsequently, Messrs. Green and Lagerstrom engaged in several discussions regarding the terms of the proposal. On June 20, 2002, the Genomic Solutions board of directors met to review the proposed terms of the acquisition by Harvard Bioscience. Messrs. Green and Graziano gave a telephonic presentation to the board on the potential synergies between the two companies and the reasons a transaction with Harvard Bioscience would be in the interests of Genomic Solutions' stockholders. The board took no action at the meeting other than to authorize Mr. Williams to continue to negotiate with Harvard Bioscience to maximize the amount of consideration to be received in any transaction with Harvard Bioscience.

After the board meeting, on the afternoon of June 20, 2002, Messrs. Lagerstrom, Williams, Graziano and Green engaged in further negotiations regarding the consideration to be paid in the proposed transaction. During these discussions, Messrs. Graziano and Green proposed a purchase price of 3,200,000 shares of Harvard Bioscience common stock and \$10,000,000 cash. On the evening of June 20, 2002, Mr. Williams advised the Genomic Solutions board of directors of this proposal and provided the directors with the general terms of the proposed transaction.

As a result of discussions on June 20 and 21, 2002, Messrs. Graziano, Green and Williams reached a tentative agreement on the principal economic terms of the proposed transaction. Thereafter, management of Genomic Solutions and Harvard Bioscience and their financial and legal advisors undertook a due diligence review of the respective companies and businesses.

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On June 24, 2002, Messrs. Williams, Kendra and Richvalsky traveled to Massachusetts and attended a dinner with Messrs. Graziano and Green and Ms. Luscinski and Mr. Lagerstrom. On June 25, 2002, Messrs. Williams, Kendra and Richvalsky visited Harvard Bioscience at its headquarters in Holliston, Massachusetts. There they met with Messrs. Graziano and Green and Ms. Luscinski to discuss various due diligence issues and business items. Messrs. Kendra and Richvalsky remained in Holliston and continued due diligence on June 26, 2002.

On June 25, 2002, counsel to Genomic Solutions sent Harvard Bioscience and its counsel a draft merger agreement. Counsel to Harvard Bioscience indicated that they would provide an initial draft merger agreement and subsequently commenced preparation of the merger agreement, voting agreements and ancillary documents for the proposed transaction.

On June 26, 2002, Harvard Bioscience and Genomic Solutions entered into an exclusivity letter, pursuant to which Genomic Solutions agreed to cease all acquisition negotiations with all other parties and to negotiate exclusively with Harvard Bioscience until the close of business on July 12, 2002.

On June 28, 2002, the Genomic Solutions board of directors met telephonically to discuss the status of the negotiations with Harvard Bioscience. Management of Genomic Solutions advised the board on principal negotiation issues, including the proposed structure of the transaction and preliminary due diligence issues.

During the period from June 28 through July 15, 2002, members of Harvard Bioscience's management team and representatives of Goodwin Procter LLP, Harvard Bioscience's legal counsel, and KPMG LLP, Harvard Bioscience's independent auditors, conducted business, financial, accounting, tax and legal due diligence and participated in discussions with Genomic Solutions, its legal counsel and management team on various issues. Also during this period, third party representatives of Harvard Bioscience and Genomic Solutions separately talked with select customers of Harvard Bioscience and Genomic Solutions.

On July 2, 2002, the Genomic Solutions board of directors met telephonically for an update on the status of negotiations with Harvard Bioscience and on-going due diligence. Also on July 2, 2002, Harvard Bioscience's counsel circulated their first draft of the proposed merger

agreement between the parties.

On July 3, 2002, Mr. Graziano informed Messrs. Lagerstrom and Williams that, based on Harvard Bioscience's due diligence review of Genomic Solutions, the economic terms of the proposed transaction needed to be revisited. After a lengthy discussion, Harvard Bioscience proposed a purchase price of 3,200,000 shares of Harvard Bioscience common stock and \$9,000,000 cash.

On July 8, 2002, the board of directors of Genomic Solutions met to review the most recent proposal by Harvard Bioscience. At the meeting, the board of Genomic Solutions discussed with Piper Jaffray certain financial aspects of the proposed transaction. Genomic Solutions' executive team reviewed its due diligence findings to date and Genomic Solutions' legal counsel commented on the initial draft of the definitive merger agreement.

On July 11, 2002 the board of directors of Genomic Solutions met again telephonically to review the status of the Harvard Bioscience transaction and discuss the progress of the due diligence and negotiations on the definitive agreement. At the meeting, the board discussed with Genomic Solutions' legal counsel and its financial advisor aspects of the proposed transaction. Legal counsel reviewed the terms of the voting agreements to which Genomic Solutions board members would be a party and discussed the proposed treatment of stock options. Piper Jaffray gave a summary of its financial analysis of the transaction terms. In addition, Genomic Solutions' executive team and legal counsel reviewed their due diligence findings. At the invitation of the Genomic Solutions board, Messrs. Graziano and Green also briefly telephonically joined the board meeting to express their views on the progress of the negotiations and the need to extend the exclusivity letter. After extensive

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discussion of the terms of the definitive agreement, the board expressed concern that the draft of the definitive agreement contained too many conditions to closing that if not satisfied would permit Harvard Bioscience to not close the transaction. The directors expressed their inclination to not approve the transaction unless significant progress could be made in reducing the number of conditions to closing. As such, the board agreed to extend the exclusivity letter only until July 15, 2002. The board established a committee of the board consisting of Messrs. Williams and Shepler and Daniel J. Mitchell to review the draft of the definitive agreement to be provided on July 13, 2002 and determine whether enough progress had been made to warrant an extension of the term of the exclusivity letter through July 17, 2002. The board authorized the committee to extend the exclusivity letter through that date only if all three members agreed that enough progress had been made to justify the extension in light of the board's concern.

On July 12, 2002, Harvard Bioscience and Genomic Solutions executed an extension of the exclusivity letter until 12:01 p.m. on July 15, 2002.

On July 15, 2002, the board of directors of Harvard Bioscience held a meeting at which the directors discussed the terms of the proposed transaction between Harvard Bioscience and Genomic Solutions and the rationale for the transaction. At the meeting, the board determined that it was advisable and in the best interests of Harvard Bioscience and its stockholders to enter into the merger agreement and authorized Harvard Bioscience's management to enter into the merger agreement and related documents.

Also on July 15, 2002, Mr. Williams met telephonically with each of Messrs. Shepler and Mitchell separately to discuss the July 13, 2002 draft of the definitive agreement. Genomic Solutions' outside legal counsel was present during each of the calls to discuss the progress made on the negotiation of the definitive agreement. Each of the directors agreed that management and legal counsel had made significant progress on reducing the number and significance of the closing conditions in the definitive agreement. As a result, Mr. Williams, on behalf of Genomic Solutions, executed an extension of the exclusivity letter with Harvard Bioscience until midnight on July 17, 2002.

On July 16, 2002, the Genomic Solutions board of directors met to consider the final terms of the merger. At the meeting, Piper Jaffray presented summaries of financial analyses it had conducted and delivered and discussed its written fairness opinion regarding the merger consideration. Counsel for Genomic Solutions discussed with the board the legal due diligence review of Harvard Bioscience, presented an analysis of the legal and regulatory aspects of the proposed transaction, reviewed the fiduciary obligations of the Genomic Solutions directors and described the terms of the merger agreement and related documents, including Mr. Williams' employment agreement with Harvard Bioscience. The directors discussed their views of the presentations and the transaction, including the potential advantages and risks associated with the merger. After extensive discussion, the board unanimously determined that the merger was advisable, in the best interests of the Genomic Solutions stockholders, and on terms that are fair to the stockholders. The board unanimously approved the merger agreement and approving the merger agreement to Harvard Bioscience.

After the close of business on July 17, 2002, the parties executed the merger agreement, certain voting agreements and an employment agreement for Mr. Williams and issued a joint press release announcing the transaction before the opening of business on July 18, 2002.

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Consideration of the Merger by Genomic Solutions' Board of Directors

Genomic Solutions' Reasons for the Merger

Genomic Solutions' board of directors consulted with senior management and Genomic Solutions' financial and legal advisors and considered a number of factors, including those set forth below, in reaching its decision to approve the merger agreement and the transactions contemplated by the merger agreement, and to recommend that Genomic Solutions' stockholders vote FOR adoption and approval of the merger agreement and approval of the merger.

The following discussion of Genomic Solutions' reasons for the merger contains a number of forward-looking statements that reflect the current views of Genomic Solutions with respect to future events that may have an effect on its future financial performance. Forward-looking statements are subject to risks and uncertainties. Actual results and outcomes may differ materially from the results and outcomes discussed in the forward-looking statements. Cautionary statements that identify important factors that could cause or contribute to differences in results and outcomes include those discussed in the section entitled "Cautionary Statements Regarding Forward-Looking Statements in this Proxy Statement and Prospectus" beginning on page 44 of this proxy statement and prospectus, and the section entitled "Risk Factors" beginning on page 21 of this proxy statement and prospectus.

Merger Consideration. In addition to the analyses and presentations by Genomic Solutions' financial advisor summarized in the section entitled "Opinion of Genomic Solutions' Financial Advisor" beginning on page 58 of this proxy statement and prospectus, the Genomic Solutions board of directors looked at the premium represented by the consideration to be offered to the holders of Genomic Solutions common stock in the merger, based upon the same day price of Harvard Bioscience common stock and cash consideration compared to the price of Genomic Solutions common stock of \$0.47 on July 15, 2002 (an 82.3% premium), \$0.65 on July 8, 2002 (a 31.8% premium), and \$0.70 on June 17, 2002 (a 22.4% premium). Genomic Solutions' board of directors also considered the ability of Genomic Solutions' stockholders to continue to participate in the growth of the combined company since a portion of the consideration to be received by Genomic Solutions' stockholders consists of shares of Harvard Bioscience common stock.

Advice from Genomic Solutions' Financial Advisor. Genomic Solutions' board of directors considered the detailed presentations made by Piper Jaffray, Genomic Solutions' financial advisor, with respect to the proposed consideration to be offered to the holders of Genomic Solutions' common stock in the merger. The Genomic Solutions board also considered Piper Jaffray's oral opinion, which was subsequently confirmed in writing, that, as of the date of its opinion, the merger consideration set forth in the merger agreement was fair, from a financial point of view, to the holders of Genomic Solutions common stock. The full text of this opinion is attached to this proxy statement and prospectus as Annex B.

Review of Prospects in Remaining Independent. Genomic Solutions' board of directors considered Genomic Solutions' financial condition, results of operations and business and earnings prospects if it were to remain an independent entity.

Effect on Employees and Facilities. The board of directors of Genomic Solutions considered the possible effect of the merger on the current facilities and employees of Genomic Solutions.

Certain Terms of the Merger Agreement Relating to Alternative Transactions. In evaluating the adequacy of the consideration to be received, the Genomic Solutions board of directors determined that the merger agreement did not preclude a third party offer for Genomic Solutions. In particular, in connection with an acquisition proposal more favorable from a financial point of view than the merger, subject to restrictions discussed more fully in the section entitled "The Merger Agreement and Related Transactions". The Merger Agreement" beginning on page 67 of this proxy statement and prospectus,

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the merger agreement permits the Genomic Solutions board of directors, if required by its fiduciary duties, to:

provide information to, and engage in discussion or negotiations with, a third party that makes an unsolicited superior proposal (as defined in the merger agreement); and

withdraw its recommendation that the stockholders vote in favor of adopting and approving the merger agreement and approving the merger.

Genomic Solutions' board of directors also considered that the merger agreement:

permits Harvard Bioscience to terminate the merger agreement if the board of directors withdraws its recommendation in favor of the merger with Harvard Bioscience or recommends another proposal; and

requires Genomic Solutions to pay a termination fee to Harvard Bioscience if the merger agreement is terminated under some circumstances.

The Genomic Solutions board of directors noted that the termination payment provisions of the merger agreement could have the effect of discouraging alternative proposals for a business combination between Genomic Solutions and a third party. However, the board of directors concluded that the amount of the fee that Genomic Solutions may be obligated to pay, and the circumstances under which it may be payable, are typical for transactions of this size and type, are not likely to discourage any such proposals and were necessary to induce Harvard Bioscience to enter into the merger agreement.

Limited Closing Conditions. The Genomic Solutions board of directors considered the limited nature of the closing conditions included in the merger agreement, and the likelihood that the merger agreement would be adopted and approved and the merger approved by Genomic Solutions' stockholders.

Realization of Liquidity. The Genomic Solutions board of directors considered the recent relative illiquidity of Genomic Solutions' common stock. The Genomic Solutions board believes that some of this lack of liquidity is due to the absence of material market analyst coverage and the relatively small market capitalization of Genomic Solutions. By providing for the exchange of Genomic Solutions common stock for Harvard Bioscience common stock and cash, the merger may enable existing Genomic Solutions stockholders to experience the advantages of a more liquid investment, as Harvard Bioscience common stock has historically experienced higher average trading volumes than Genomic Solutions common stock.

The Genomic Solutions board also identified and considered a number of other factors in its deliberations concerning the merger, including:

risks associated with fluctuations in Harvard Bioscience's stock price prior to the merger;

the risk of disruption of sales momentum as a result of uncertainties created by the announcement of the merger;

the risk that the voting agreements may have the effect of discouraging alternative proposals for a business combination with another third party;

the payment that would be paid to Mr. Williams as a result of the merger;

the new employment agreement between Mr. Williams and the surviving corporation which becomes effective upon the closing of the merger and which includes a nomination for a seat on the board of directors of Harvard Bioscience;

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the interests of the directors and officers that are different from, or in addition to, those of Genomic Solutions' stockholders generally, including the receipt of change in control payments under the employment agreements with certain executive officers of Genomic Solutions; and

other applicable risks described in the section of this proxy statement and prospectus entitled "Risk Factors" on page 21.

The Genomic Solutions board of directors believed that these risks and potential negative factors were outweighed by the potential benefits of the merger.

The foregoing discussion of the information and factors considered by Genomic Solutions' board of directors, while not exhaustive, includes the material factors considered by the board of directors. In view of the variety of factors considered in connection with its evaluation of the merger, Genomic Solutions' board of directors did not find it practicable to, and did not, quantify or otherwise assign relative or specific weight or values to any of these factors, and individual directors may have given different weights to different factors.

Recommendation of Genomic Solutions' Board of Directors

The Genomic Solutions board of directors has unanimously determined that the merger is advisable, in the best interests of Genomic Solutions stockholders and on terms that are fair to the stockholders of Genomic Solutions. Accordingly, the Genomic Solutions board of directors has unanimously approved the merger agreement and the merger and recommends that stockholders vote FOR adoption and approval of the merger.

Opinion of Genomic Solutions' Financial Advisor

Genomic Solutions retained U.S. Bancorp Piper Jaffray Inc. to act as its financial advisor and, if requested, to render to the board of directors of Genomic Solutions an opinion as to the fairness, from a financial point of view, of the consideration to be received by Genomic Solutions stockholders in the merger.

On July 16, 2002, Piper Jaffray delivered to the board of directors of Genomic Solutions its opinion, as of that date and based upon and subject to the assumptions, factors and limitations set forth in the written opinion and described below, that the merger consideration to be received by holders of Genomic Solutions common stock in the merger pursuant to the merger agreement was fair, from a financial point of view, to the holders of common stock of Genomic Solutions. A copy of Piper Jaffray's written opinion is attached to this proxy statement and prospectus as Annex B and is incorporated into this proxy statement and prospectus by reference.

While Piper Jaffray rendered its opinion and provided certain analyses to Genomic Solutions' board of directors, Piper Jaffray was not requested to and did not make any recommendation to Genomic Solutions' board of directors as to the specific form or amount of the consideration to be received by Genomic Solutions stockholders in the proposed merger, which was determined through negotiations between Genomic Solutions and Harvard Bioscience. Piper Jaffray's written opinion, which was directed to the Genomic Solutions board of directors, addresses only the fairness, from a financial point of view, of the merger consideration to be received by Genomic Solutions stockholders in the proposed merger, does not address Genomic Solutions' underlying business decision to proceed with or effect the merger, or the relative merits of the merger compared to any alternative business strategy or transaction in which Genomic Solutions might engage and does not constitute a recommendation to any Genomic Solutions stockholder as to how to vote in the merger.

In arriving at its opinion, Piper Jaffray's review included:

a draft dated July 13, 2002 of the merger agreement;

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selected publicly available financial and other information related to Harvard Bioscience and Genomic Solutions;

certain publicly available market and securities data of Harvard Bioscience and Genomic Solutions;

to the extent publicly available, certain financial and securities data of selected other companies whose securities are traded in public markets;

to the extent publicly available, information relating to selected acquisition transactions involving companies operating in industries deemed similar to the industry in which Genomic Solutions operates; and

internal financial forecasts of Genomic Solutions prepared and furnished by Genomic Solutions' management and giving effect to Genomic Solutions' previously-announced restructuring.

In addition, Piper Jaffray visited the headquarters of Genomic Solutions and conducted discussions with members of senior management concerning the financial condition, current operating results and business outlook of Genomic Solutions and the combined company following the merger. Piper Jaffray also visited Harvard Bioscience's headquarters and had informal discussions with members of Harvard Bioscience's senior management.

In delivering its opinion to the board of directors of Genomic Solutions, Piper Jaffray prepared and delivered to Genomic Solutions' board of directors written materials containing various analyses and other information material to the opinion. The following is a summary of the analyses contained in the materials:

Implied Consideration. Based on the 3,200,000 shares of Harvard Bioscience common stock to be received by Genomic Solutions stockholders in the merger, and the value of Harvard Bioscience stock consideration (based on the five-day trading average of Harvard Bioscience immediately prior to July 16, 2002 of \$5.78 per share), Piper Jaffray calculated the aggregate implied value of the stock consideration payable in the transaction for Genomic Solutions common stock to be approximately \$18.48 million. Piper Jaffray also calculated that stockholders of Genomic Solutions would be issued an aggregate of 10.4% of the total Harvard Bioscience common stock and common stock equivalents outstanding after the merger. Giving effect to the implied value of the stock consideration and the aggregate cash consideration of \$9.0 million, as well as to Genomic Solutions' estimated outstanding debt and cash at the closing of the merger, Piper Jaffray calculated an implied company value (equity value plus debt less cash) for Genomic Solutions of \$29.16 million.

Market Analysis. Piper Jaffray calculated the assumed exchange ratio that would result for the merger if all the consideration paid to Genomic Solutions stockholders was in the form of Harvard Bioscience common stock by dividing the per share consideration of \$0.87 by the five-day trading average of Harvard Bioscience immediately prior to July 16, 2002 of \$5.78 per share. This assumed exchange ratio of 0.1515 was measured against the "implied" exchange ratio based on historical stock prices for Harvard Bioscience. Piper Jaffray examined the exchange ratios implied by the 30, 60, 90, 180 day and one year trading median stock prices for Harvard Bioscience. This analysis produced the following implied historical exchange ratios:

	Transaction	Historical Exchange Ratio (Median)
30 Day Period	0.1515x	0.1252
60 Day Period	0.1515x	0.1154
90 Day Period	0.1515x	0.1287
180 Day Period	0.1515x	0.1860
One Year Period	0.1515x	0.2058
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Piper Jaffray presented selected price and volume distribution data of Harvard Bioscience and Genomic Solutions and illustrated the relative stock price performance of Harvard Bioscience and Genomic Solutions against the Nasdaq Stock Market and the S&P 500 composite index. Piper Jaffray also presented ownership data for both Harvard Bioscience and Genomic Solutions and summaries of the published estimates by securities market research analysts for both Harvard Bioscience and Genomic Solutions.

Genomic Solutions Comparable Public Company Analysis. Piper Jaffray compared financial information and valuation ratios of Genomic Solutions to corresponding data and ratios from seven publicly traded companies deemed comparable to Genomic Solutions. This group included Aclara Biosciences, Inc., Argonaut Technologies, Inc., Bruker AXS Inc., Ciphergen Biosystems, Inc., Nanogen, Inc., Orchid Biosciences, Inc. and Transgenomic, Inc. This group was selected from instrumentation companies operating in the life sciences enabling technology industry with a market capitalization below \$100 million that were expected to be unprofitable or marginally profitable in 2002 based on publicly available estimates, and were companies otherwise deemed comparable by Piper Jaffray.

This analysis produced multiples of selected valuation data as follows:

Genomic Solutions(1)	Transaction(2)	Low	Mean	Median	High

			Co	Comparable Companies			
Market capitalization (in millions)	\$ 14.7 \$	27.5	15.9 \$	58.5 \$	<u>59.8</u> \$	76.9	
Share price as percentage of 52-week high	11.7%	21.8% s	15.3%	22.0%	19.1%	34.8%	
Company value to latest twelve months revenue	0.8x	1.4x	0.3x	0.9x	0.7x	2.1x	
Company value to estimated calendar 2002 revenue	0.7x	1.2x	0.3x	0.6x	0.4x	1.1x	
Company value to estimated calendar 2003 revenue	0.6x	1.1x	0.2x	0.3x	0.3x	0.5x	

(1)

Based on July 15, 2002 closing price.

(2)

Based on the five-day trading average of Harvard Bioscience immediately prior to July 16, 2002.

Selected Transaction Analysis. Piper Jaffray reviewed 12 merger and acquisition transactions that it deemed comparable to the merger. It selected these transactions by searching Securities and Exchange Commission filings, public company disclosures, press releases, industry and popular press reports, databases and other sources and by applying the following criteria:

transactions involving target companies in the life sciences enabling technology industry that were primarily instrumentation companies;

transactions in which the target company had an enterprise value between \$5.0 million and \$650.0 million; and

transactions that were announced or completed after January 1, 1998.

Piper Jaffray compared the resulting multiples of company value to the latest 12 months revenues to the multiples for Genomic Solutions derived from the implied value payable in the merger based on the five-day trading average of Harvard Bioscience immediately prior to July 16, 2002.

		i	Selected Transactions			
		Low	Mean	Median	High	
Company value to latest 12 months revenue	1.4x	0.7x	2.0x	1.8x	3.9x	
Promiums Paid Analysis Piper Jaffray reviewed publicly available	informatio	n for 65	merger an	d acquisition	transaction	

Premiums Paid Analysis. Piper Jaffray reviewed publicly available information for 65 merger and acquisition transactions involving public companies to determine the implied premiums payable in these transactions over recent trading prices. It selected these transactions by searching Securities and

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Exchange Commission filings, public company disclosures, press releases, industry and popular press reports, databases and other sources and by applying the following criteria:

transactions involving target companies with SIC codes in the life sciences industry;

transactions in which at least 50% of a public target company was acquired; and

transactions announced or completed after January 1, 2000.

The table below shows a comparison of those premiums to the premium that would be paid to Genomic Solutions stockholders based on the implied value payable in the merger. The premium calculations for Genomic Solutions stock are based upon an assumed announcement date of July 16, 2002:

	I	mplied Pren	nium (Disc	ount)	
	Transaction	Co	mparable	Transactions	
		Low	Mean	Median	High
One day before announcement	86.1%	(45.4%)	32.2%	28.6%	121.0%
One week before announcement	34.6%	(34.0%)	40.4%	31.0%	127.3%
Four weeks before announcement	25.0%	(47.8%)	52.1%	48.2%	216.2%

Discounted Cash Flow Analysis. Piper Jaffray performed a discounted cash flow analysis of Genomic Solutions in which it calculated the present value of the projected hypothetical future cash flows of Genomic Solutions using estimates and financial forecasts prepared by Genomic Solutions' management. Piper Jaffray estimated a range of theoretical values for Genomic Solutions based on the net present value of its implied annual cash flows and a terminal value for Genomic Solutions in 2007 calculated based upon a multiple of EBIT (earnings before interest and taxes). Piper Jaffray applied a range of discount rates of 20% to 30% and a range of terminal value multiples of 8.0x to 12.0x of forecasted 2007 EBIT. This analysis yielded the following results:

Aggregate Enterprise Value of Genomic Solutions

(in thousands)	
Low	\$ 18,167
Mid	26,239
High	37,413
Aggregate Equity Value of Genomic Solutions	
(in thousands)	
Low	\$ 18,320
Mid	26,757
High	38,473
Per Share Equity Value of Genomic Solutions	
Low	\$ 0.59
Mid	0.86
High	1.23
	1.11

Contribution Analysis. Piper Jaffray analyzed the expected contributions of each of Genomic Solutions and Harvard Bioscience to revenue, gross profit, EBIT and pretax income of the combined company for the fiscal year ended 2001 and the fiscal years ending 2002 and 2003 based, in the case of Genomic Solutions, on management estimates for Genomic Solutions provided by Genomic Solutions' management and, in the case of Harvard Bioscience, on consensus estimates of securities market analysts providing research coverage of Harvard Bioscience. This contribution analysis was performed by assuming a transaction where all the consideration paid to Genomic Solutions stockholders was in the form of Harvard Bioscience common stock and without including any synergies that the combined

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entity may realize following consummation of the transaction. The total number of shares of Harvard Bioscience common stock paid as consideration in the assumed transaction involving only stock was implied by applying the exchange ratio calculated by dividing the per share consideration to be paid in the merger by the five-day trading average of Harvard Bioscience to all of the outstanding shares of Genomic Solutions common stock. The analysis indicated that, during these periods, Genomic Solutions would contribute to the combined entity revenue ranging from 26.7% to 30% and gross profit ranging from 23.1% to 29.7%. The analysis also indicated that, during the fiscal year ending 2003, Genomic Solutions would contribute to the combined entity EBIT of 6.2%. Due to Genomic Solutions' negative EBIT for the fiscal years ending 2001 and 2002, an analysis of EBIT for such periods was not meaningful. In addition, the analysis indicated that Genomic Solutions would contribute to the combined entity are ending 2003 pretax income of 0.2%. Due to Genomic Solutions' negative pretax income during the fiscal years ending 2001 and 2002 an analysis of pretax income during these periods was not meaningful.

Pro Forma Accretion/Dilution Analysis. Piper Jaffray analyzed pro forma effects resulting from the impact of the transaction on the projected earnings per share of the combined company for the fiscal year ending 2003 using financial forecasts provided by Genomic Solutions management in the case of Genomic Solutions and consensus estimates of securities market analysts providing research coverage of Harvard Bioscience in the case of Harvard Bioscience. Piper Jaffray performed this analysis taking into account operational synergies of approximately \$800,000 that Genomic Solutions management estimates the combined company may realize following consummation of the transaction. Piper Jaffray determined that the transaction could be accretive in the fiscal year ending 2003 to the projected stand-alone earnings per share of Harvard Bioscience.

Harvard Bioscience Comparable Public Company Analysis. Piper Jaffray compared financial information and valuation ratios of Harvard Bioscience to corresponding data and ratios from six publicly traded companies deemed comparable to Harvard Bioscience. This group included Biacore International AB, Biosource International, Inc., Bruker AXS Inc., Bruker Daltonics Inc., Molecular Devices Corporation and Tripos, Inc. This group was selected from instrumentation and consumables companies with a market capitalization between \$60 million and \$300 million that operate in the life sciences enabling technology industry, that were estimated to be profitable in 2002 and have 2002 revenues between \$35 million and \$120 million and were companies otherwise deemed comparable by Piper Jaffray.

This analysis produced multiples of selected valuation data as follows:

	Harvard Bioscience(1)	Co	omparable Companies			
		Low	Mean	Median	High	
Estimated revenue growth in 2002	41.2%	12.0%	13.3%	13.3%	14.6%	
Company value to estimated calendar 2002 revenue	2.2x	0.3x	1.4x	1.2x	3.0x	
Company value to estimated calendar 2003 revenue	1.7x	0.3x	1.2x	1.1x	2.4x	
Company value to estimated calendar 2002 EBIT	12.0x	8.8x	22.9x	18.0x	57.2x	
Company value to estimated calendar 2003 EBIT	8.7x	6.1x	10.8x	12.0x	15.7x	
Share price to estimated calendar 2002 net income per share	20.7x	20.3x	30.6x	30.7x	44.0x	
Share price to estimated calendar 2003 net income per share	15.1x	13.1x	17.2x	16.5x	23.1x	

(1)

Based on a July 15, 2002 closing price

In reaching its conclusion as to the fairness of the merger consideration payable in the merger and in its presentation to Genomic Solutions' board of directors, Piper Jaffray did not rely on any single analysis or factor described above, assign relative weights to the analyses or factors considered by it, or make any conclusion as to how the results of any given analysis, taken alone, supported its opinion.

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The preparation of a fairness opinion is a complex process and not necessarily susceptible to partial analysis or summary description. Piper Jaffray believes that its analyses must be considered as a whole and that selection of portions of its analyses and of the factors considered by it, without considering all of the factors and analyses, would create a misleading view of the processes underlying the opinion.

The analyses of Piper Jaffray are not necessarily indicative of actual values or future results, which may be significantly more or less favorable than suggested by the analyses. Analyses relating to the value of companies do not purport to be appraisals or valuations or necessarily reflect the price at which companies may actually be sold. No company or transaction used in any analysis for purposes of comparison is identical to Genomic Solutions, Harvard Bioscience or the merger. Accordingly, an analysis of the results of the comparisons is not mathematical; rather, it involves complex considerations and judgments about differences in the companies to which Genomic Solutions and Harvard Bioscience were compared and other factors that could affect the public trading value of the companies.

For purposes of its opinion, Piper Jaffray relied upon and assumed the accuracy and completeness of the financial statements and other information provided to it by Genomic Solutions and Harvard Bioscience or otherwise made available to it and did not assume responsibility for the independent verification of that information. Estimates and financial forecasts of management of Genomic Solutions were not prepared with the expectation of public disclosure. Piper Jaffray relied upon the assurances of Genomic Solutions' management that the information provided was prepared on a reasonable basis in accordance with industry practice, and, with respect to estimates and financial forecast data, reflects the best currently available estimates and judgment of Genomic Solutions' management, was based on reasonable judgments and that they were not

aware of any information or facts that would make the information provided to Piper Jaffray incomplete or misleading. Harvard Bioscience did not disclose internal financial information to Piper Jaffray. Accordingly, Piper Jaffray relied on published reports of securities market analysts in connection with its consideration of forward-looking financial information of Harvard Bioscience. Piper Jaffray did not have access to the management of Harvard Bioscience for the purpose of confirming the accuracy or completeness of any information in such published reports or for the purpose of preparation of any financial information regarding the combined company.

In arriving at its opinion, Piper Jaffray did not perform any appraisals or valuations of any specific assets or liabilities of Genomic Solutions or Harvard Bioscience, and was not furnished with any such appraisals or valuations. Without limiting the generality of the foregoing, Piper Jaffray undertook no independent analysis of any pending or threatened litigation, possible unasserted claims or other contingent liabilities, to which Genomic Solutions or any of its affiliates is a party or may be subject and, with Genomic Solutions' consent, Piper Jaffray's opinion makes no assumption concerning, and therefore does not consider, the possible assertion of claims, outcomes or damages arising out of any such matters. For purposes of its opinion, Piper Jaffray assumed that the merger will constitute a reorganization for federal income tax purposes.

Piper Jaffray's opinion addresses solely the fairness, from a financial point of view, of the consideration to be received in the merger by holders of Genomic Solutions common stock and does not address any other terms or agreements relating to the transaction. Piper Jaffray's opinion does not address, nor should it be construed to address, the relative merits of the transaction with Harvard Bioscience, on the one hand, or any alternative business strategies or alternative transactions that may be available to Genomic Solutions, on the other hand. Piper Jaffray analyzed each of Genomic Solutions and Harvard Bioscience as going concerns and, accordingly, expressed no opinion as to the liquidation value of either entity. Piper Jaffray expressed no opinion as to the price at which shares of Genomic Solutions or Harvard Bioscience common stock have traded or at which the shares of Genomic Solutions, Harvard Bioscience or the combined company may trade at any future time. The opinion is based on information available to Piper Jaffray and the facts and circumstances as they existed and were subject to evaluation on the date of the opinion. Events occurring after that date

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could materially affect the assumptions used in preparing the opinion. Piper Jaffray has not undertaken to and is not obligated to affirm or revise its opinion or otherwise comment on any events occurring after the date it was given.

Piper Jaffray, as a customary part of its investment banking business, evaluates businesses and their securities in connection with mergers and acquisitions, underwritings and secondary distributions of securities, private placements and valuations for estate, corporate and other purposes. The board of directors of Genomic Solutions selected Piper Jaffray because of its expertise, reputation and familiarity with the life sciences industry. In the ordinary course of its business, Piper Jaffray and its affiliates may actively trade securities of Genomic Solutions or Harvard Bioscience for their own accounts or the accounts of their customers and, accordingly, may at any time hold a long or short position in those securities.

Under the terms of the engagement letter with Genomic Solutions, Genomic Solutions has agreed to pay Piper Jaffray a customary fee upon consummation of the transaction for Piper Jaffray's financial advisory services. Genomic Solutions has also agreed to pay Piper Jaffray a customary fee for rendering its opinion, which will be credited against payment of the fee for financial advisory services. The opinion fee is not contingent upon consummation of the merger. The contingent nature of the financial advisory fee may have created a potential conflict of interest in that Genomic Solutions would be unlikely to consummate the transaction unless it had received the opinion of Piper Jaffray. Whether or not the transaction is consummated, Genomic Solutions has agreed to pay the reasonable out-of-pocket expenses of Piper Jaffray and to indemnify Piper Jaffray against liabilities incurred. These liabilities include liabilities under the federal securities laws in connection with the engagement of Piper Jaffray by Genomic Solutions' board of directors.

Interests of Genomic Solutions' Directors and Officers in the Merger

When you are considering the recommendation of Genomic Solutions' board of directors with respect to approving the merger agreement and the merger, you should be aware that some of the directors and executive officers of Genomic Solutions have interests in the merger and participate in arrangements that are different from, or are in addition to, those of Genomic Solutions stockholders generally. The Genomic Solutions board of directors was aware of these interests and considered them, among other matters, when it approved the merger agreement and the merger. These interests include the following:

Accelerated Vesting of Options

The vesting restrictions on certain outstanding options held by the current directors and officers of Genomic Solutions to purchase Genomic Solutions common stock will accelerate, which will cause those stock options to become fully vested and exercisable immediately prior to the closing of the merger. The aggregate number of shares of Genomic Solutions common stock issuable upon the exercise of unvested options that

are subject to acceleration as a result of the merger and that are held by the current directors and executive officers as of July 17, 2002, the date of the merger agreement, was 362,214 shares. At July 17, 2002, options covering 9,200 of these shares had an exercise price that was less than the market price of the Genomic Solutions common stock on that date. Genomic Solutions believes that holders of options that have an exercise price below the market price of Genomic Solutions common stock on the date immediately prior to closing are likely to exercise those options. Pursuant to the terms of the merger agreement, all options to purchase Genomic Solutions common stock will be terminated or exercised prior to the consummation of the merger with specified limited exceptions. For further discussion about the treatment of Genomic Solutions options in the merger, see the section entitled " The Merger Agreement Treatment of Genomic Solutions Stock Options and Warrants" on page 69 of this proxy statement and prospectus.

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Arrangements with Jeffrey S. Williams

On January 1, 2000, Genomic Solutions entered into a three-year employment agreement with Jeffrey S. Williams, Genomic Solutions' President and Chief Executive Officer. Under the employment agreement, Mr. Williams receives an annual base salary of \$345,000 and is eligible to receive an annual performance bonus not to exceed 35% of his annual base salary based upon criteria established by the Compensation Committee of Genomic Solutions' board of directors. The employment agreement provides for a payment to be made to Mr. Williams in an amount equal to two times his base salary paid in the previous twelve months in the event there is a change in control of Genomic Solutions and Mr. Williams does not accept employment with the surviving corporation.

In addition, as a condition to the execution of the merger agreement, Harvard Bioscience required that Mr. Williams enter into an employment agreement with the surviving corporation to serve as President of the surviving corporation. In the course of the negotiations and in order to induce him to terminate his prior employment agreement and accept employment with the surviving corporation, Harvard Bioscience, Genomic Solutions and Mr. Williams agreed that Mr. Williams would receive a new employment agreement with the surviving corporation and a one-time payment of \$690,000. The new employment agreement will become effective and will replace and supersede Mr. Williams' prior employment agreement with Genomic Solutions upon the effectiveness of the merger. The new agreement continues for a term of twelve months thereafter, and it provides that it is to be automatically extended on each anniversary date for additional twelve month periods, unless either Mr. Williams or the surviving corporation gives notice that it intends to terminate the agreement. The agreement provides that Mr. Williams will be paid an annual base salary of \$225,000 and be eligible to receive a bonus of up to 100% of his base salary. The amount of the bonus will be based on the surviving corporation's achievement of annual operating profit and/or revenue targets to be established by the surviving corporation for each calendar year of the agreement. The agreement provides that Mr. Williams will be entitled to certain benefits and will receive a grant of an option to purchase 100,000 shares of Harvard Bioscience common stock at an exercise price equal to the fair market value of Harvard Bioscience's common stock on the grant date. The option will vest ratably over four years. The new employment agreement includes severance provisions that are effective upon the termination of Mr. Williams' employment under certain circumstances. In the event that, within twelve months after a change in control of Harvard Bioscience, Mr. Williams is terminated without cause or Mr. Williams terminates his employment for good reason, Mr. Williams will be entitled to, in HAG Acq. Corp.'s sole discretion, either (a) written notice at least 120 days prior to such termination, or (b) a lump sum payment in cash in an amount equal to 120 days pay based on his then current base salary. See " Other Material Agreements Relating to the Merger Employment Agreement."

In the new employment agreement, Harvard Bioscience agreed to effect the nomination of Mr. Williams to Harvard Bioscience's board of directors, effective on the next business day following the effective time of the merger. Mr. Williams will serve as a Class III director for a term expiring at the annual meeting of stockholders in 2003. Mr. Williams has also agreed to resign his board seat upon termination of his employment with the surviving corporation for any reason.

In connection with Mr. Williams' service as a director of Harvard Bioscience after the merger, the following biographical and compensation information is included in this proxy statement and prospectus.

Mr. Williams, 36, joined Genomic Solutions' predecessor in March 1997 as its President, Chief Executive Officer and a director. From 1995 until joining Genomic Solutions, Mr. Williams served as the Executive Vice President and Chief Operating Officer of International Remote Imaging Systems, Inc., a publicly-traded company specializing in digital imaging products for the clinical diagnostics and research marketplaces. Mr. Williams' prior employment included various positions at Boehringer Mannheim GmbH, a global healthcare company, most recently as Vice President and Global Business Manager. He also served in various sales and marketing capacities with the Organon

Pharmaceutical division of Akzo Nobel and the University of Michigan's Intellectual Properties Office. Mr. Williams received a BS in Biology from Alma College and an MBA from the University of Michigan.

The following table shows the compensation paid to Mr. Williams by Genomic Solutions for services rendered to Genomic Solutions in 2001, 2000 and 1999:

Name			Annual Compensation					Long-Term Compensation
	Fiscal Year		Salary		Bonus		All Other Compensation(1)	Securities Underlying Options
Jeffrey S. Williams	2001 2000 1999	\$ \$ \$	345,000 225,000 200,000	\$ \$ \$	64,500 277,450 104,000	\$ \$ \$	14,234 14,954 7,619	150,000

(1)

Other compensation includes (a) the use of a company automobile for Mr. Williams valued at \$8,918 for fiscal year 2001, \$9,662 for fiscal year 2000 and \$7,400 for 1999, (b) the value of the insurance premiums paid by Genomic Solutions with respect to term life insurance for the benefit of Mr. Williams in the amount of \$216 for 2001, \$192 for 2000, and \$219 for 1999, and (c) \$5,100 of Genomic Solutions matching contributions to Mr. Williams' 401(k) for 2001 and 2000.

In April 2001, Genomic Solutions loaned Mr. Williams \$500,000 pursuant to a two year term note that bears interest at an annual rate equal to 6.5%. The loan was secured by a pledge of approximately 500,000 shares of Genomic Solutions common stock owned by Mr. Williams. In June 2001, Mr. Williams repaid the loan in full.

In 1998 and 2000, Genomic Solutions made loans to Mr. Williams which he used to exercise options to acquire shares of Genomic Solutions common stock. The principal amount outstanding is \$47,250 for the 1998 loan and \$40,000 for the 2000 loan. Both loans are due five years after the dates they were made, are unsecured and provide for full recourse against Mr. Williams. Each note bears interest at an annual rate equal to the medium term applicable federal rate which is 5.93% for the 1998 note and 6.56% for the 2000 note.

Arrangements with Other Directors and Executive Officers

Genomic Solutions is responsible for change in control payments to Messrs. Richvalsky, Kendra, and Thomas C. Tisone, Ph.D., under their respective employment agreements with Genomic Solutions. If any of Messrs. Richvalsky, Kendra, or Dr. Tisone is terminated as a result of any acquisition of Genomic Solutions by means of merger or other form of corporate reorganization, he is entitled to a change in control payment in the amount of six months' salary. Under their respective employment agreements, if any of them remains employed by Genomic Solutions or the acquiring company, he is entitled to a change in control payment in the amount of three months' salary.

Indemnification and Directors and Officers Insurance

Genomic Solutions' officers and directors are entitled to continuing indemnification against liabilities for matters occurring prior to the merger (including matters arising as a result of the merger) by virtue of provisions contained in Genomic Solutions' certificate of incorporation and bylaws and in the merger agreement. The merger agreement also provides that prior to the completion of the merger Genomic Solutions will purchase an extended reporting period endorsement or "tail" policy under Genomic Solutions' existing director and officer insurance policy to provide the currently covered directors and officers of Genomic Solutions with liability insurance coverage for six years following the completion of the merger for actions and omissions prior to the completion of the merger.

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Consideration of the Merger by Harvard Bioscience's Board of Directors

The Harvard Bioscience board of directors approved the merger agreement and the merger because it determined that the combined company would have the potential to realize a stronger competitive position and improved long-term operating and financial results which it believed would inure to the benefit of the stockholders of Harvard Bioscience. In particular, the Harvard Bioscience board of directors believes that the merger will allow the combined company:

to leverage Genomic Solutions' direct sales force for selling Harvard Bioscience's products,

to use Harvard Bioscience's database and direct marketing expertise to generate leads for the Genomic Solutions product line,

to use Harvard Bioscience's foreign subsidiaries to give Genomic Solutions a stronger presence in continental Europe, and

to leverage Harvard Bioscience's relationship with Amersham Biosciences and Genomic Solutions' relationship with PerkinElmer.

After taking into account these and other factors, the Harvard Bioscience board of directors determined that the merger agreement and the merger were in the best interests of Harvard Bioscience and its stockholders and that Harvard Bioscience should enter into the merger agreement and complete the merger.

The Merger Agreement

Structure of the Merger

Under the terms of the merger agreement, Genomic Solutions will be merged with and into HAG Acq. Corp., and HAG Acq. Corp. will survive the merger as a wholly-owned subsidiary of Harvard Bioscience.

Completion and Effectiveness of the Merger

Harvard Bioscience and Genomic Solutions expect to complete the merger when all of the conditions to completion of the merger contained in the merger agreement have been satisfied or waived. The merger will become effective upon the filing of a certificate of merger with the State of Delaware or at a subsequent date or time as specified in the certificate of merger. Genomic Solutions and Harvard Bioscience expect to file the certificate of merger shortly following the special meeting of Genomic Solutions stockholders at which the merger agreement and the merger will be considered and voted upon.

Harvard Bioscience and Genomic Solutions are working toward satisfying these conditions and completing the merger as quickly as possible. Harvard Bioscience and Genomic Solutions currently plan to complete the merger in the fourth quarter of 2002, following the special meeting of Genomic Solutions stockholders assuming the Genomic Solutions stockholders adopt and approve the merger agreement and approve the merger and the other merger conditions are satisfied. Because the merger is subject to specified conditions, some of which are beyond Harvard Bioscience's and Genomic Solutions' control, the exact timing cannot be predicted.

Conversion of Genomic Solutions Common Stock in the Merger

At the effective time of the merger, each outstanding share of Genomic Solutions common stock issued and outstanding immediately prior to the effective time, other than as described below, will

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automatically be converted into the right to receive the following, which we sometimes refer to in this proxy statement and prospectus as the merger consideration:

the number of shares of Harvard Bioscience common stock which is equal to the quotient (which we sometimes refer to in this proxy statement and prospectus as the conversion ratio) determined by dividing 3,200,000 shares of Harvard Bioscience common stock by the number of shares of outstanding Genomic Solutions common stock immediately prior to the effective time of the merger; and

cash in an amount equal to the quotient determined by dividing \$9,000,000 by the number of shares of outstanding Genomic Solutions common stock immediately prior to the effective time of the merger.

Possible Adjustments to the Merger Consideration

Extraordinary Stock Events. The stock portion of the merger consideration may be adjusted either upwards or downwards if Harvard Bioscience splits or combines its common stock, pays a dividend in its common stock or effects a similar event affecting its common stock

before the completion of the merger. In these circumstances, the number of shares of Harvard Bioscience common stock issued in the merger will be adjusted either upwards or downwards to appropriately reflect that split, combination, dividend or similar event. For example, if Harvard Bioscience were to conduct a two-for-one stock split prior to closing, Genomic Solutions stockholders would receive twice as many shares in the merger.

To Maintain Tax Treatment. In order to maintain the intended tax-free nature of the merger with respect to the stock portion of the merger consideration, the parties have agreed that the value of the Harvard Bioscience shares to be issued in the merger must be at least 40% of the value of the total merger consideration (which includes the aggregate value of the payments made for dissenting shares). If, on the closing date, the aggregate value of the total Harvard Bioscience shares to be delivered to Genomic Solutions stockholders is less than 40% of the value of the total merger consideration to be delivered to Genomic Solutions stockholders and all other conditions to the closing set forth in the merger agreement have been satisfied (or waived), then the merger consideration will be adjusted by increasing the value of the stock consideration and decreasing the cash consideration so that the shares of Harvard Bioscience common stock to be issued in the merger will constitute 40% of the value of the total merger consideration. In any event, after giving effect to any such adjustments, the parties have agreed that the aggregate value of the total merger consideration will remain the same as before any adjustments.

Fractional Shares

No fractional shares of Harvard Bioscience common stock will be issued in connection with the merger. In lieu of a fraction of a share of Harvard Bioscience common stock each holder of Genomic Solutions common stock who would otherwise be entitled to receive a fraction of a share of Harvard Bioscience common stock will receive an amount of cash, without interest, and rounded to the nearest cent, determined by multiplying that fraction by the average closing price of a share of Harvard Bioscience common stock for the five most recent days that Harvard Bioscience common stock has traded ending on the trading day immediately prior to the effective date of the merger, as reported on the Nasdaq National Market.

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Rights of Holders of Genomic Solutions Common Stock at the Effective Time of the Merger

At the effective time of the merger, holders of Genomic Solutions common stock will cease to be, and will have no rights as, Genomic Solutions stockholders, other than:

the right to receive any dividend or other distribution, if any, with respect to Genomic Solutions common stock with a record date occurring prior to the effective time of the merger, and

the right to receive the merger consideration.

After the merger occurs, there will be no transfers on Genomic Solutions' stock transfer books of any shares of its common stock.

Exchange of Genomic Solutions Stock Certificates for Harvard Bioscience Stock Certificates and Cash

Promptly after the effective time of the merger, if you are the holder of a Genomic Solutions stock certificate, Registrar and Transfer Company, the exchange agent for the merger, will mail to you a letter of transmittal and instructions for surrendering your Genomic Solutions stock certificates in exchange for Harvard Bioscience stock certificates, cash and any dividends or other distributions, if any, to which you are or may be entitled. When you deliver your Genomic Solutions stock certificates to the exchange agent for the merger, along with a properly completed and executed letter of transmittal and any other required documents, you will receive Harvard Bioscience stock certificates representing the number of full shares of Harvard Bioscience common stock, cash consideration, less any applicable withholding, and cash in lieu of fractional shares, to which you are entitled under the merger agreement. **You should not submit your Genomic Solutions stock certificates for exchange until you receive instructions from the exchange agent for the merger.**

You are not entitled to receive any dividends or other distributions on Harvard Bioscience common stock until you have surrendered your Genomic Solutions stock certificates in exchange for Harvard Bioscience stock certificates and the cash consideration. Promptly after your Harvard Bioscience stock certificates are issued, you will receive payment for any dividend or other distribution on Harvard Bioscience common stock with a record date after the merger and a payment date prior to the date you surrender your Genomic Solutions stock certificates.

Harvard Bioscience will only issue a Harvard Bioscience stock certificate in a name other than the exact name in which a surrendered Genomic Solutions stock certificate is registered if you present the exchange agent with all documents required to show and effect the unrecorded transfer of ownership of the shares of Genomic Solutions common stock formerly represented by the Genomic Solutions stock

certificate, and show that you paid any applicable stock transfer taxes.

If your stock certificate has been lost, stolen or destroyed, you may be required to deliver an affidavit and a lost certificate bond as a condition to receiving your Harvard Bioscience stock certificate and cash consideration.

Treatment of Genomic Solutions Stock Options and Warrants

Stock Options

With respect to any options to purchase shares of Genomic Solutions common stock which have not been exercised and which do not terminate in accordance with their terms upon completion of the merger, Genomic Solutions has agreed to exercise reasonable efforts prior to the completion of the merger to obtain the written consent of the holder of each such option providing for, among other things, the termination of the stock option on or prior to completion of the merger.

If any holder of an option that has not been exercised or terminated refuses to give its consent to termination of that option on or prior to completion of the merger, Genomic Solutions will take all actions within its power reasonably necessary to cause each such stock option to be automatically converted at the effective time into an option to purchase that number of shares of Harvard Bioscience

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common stock equal to the number of shares of Genomic Solutions common stock issuable immediately prior to the effective time upon exercise of the option multiplied by the option exchange ratio (as described below), rounded down to the nearest whole share and Harvard Bioscience will assume such options, subject to the limitations described below. The per share exercise price of each Genomic Solutions stock option will be adjusted to an exercise price per share of Harvard Bioscience common stock equal to the original exercise price per Genomic Solutions share of the stock option divided by the option exchange ratio, rounded up to the nearest whole cent.

The option exchange ratio means the sum of:

the conversion ratio in the merger; and

the quotient of:

(A)

the per share cash merger consideration divided by

(B)

the closing price of a share of Harvard Bioscience common stock on the Nasdaq National Market on the last full trading day immediately prior to the closing date, rounded to the nearest third decimal place.

However, under the merger agreement, Harvard Bioscience is only required to assume options to purchase Genomic Solutions common stock which convert into options to purchase not more than an aggregate of:

20,000 shares of Harvard Bioscience common stock held by persons who as of the effective time are not employees of Genomic Solutions; and

100,000 shares of Harvard Bioscience common stock held by persons who as of the effective time are employees of Genomic Solutions.

In addition, Harvard Bioscience is not required to close the merger unless Genomic Solutions has taken all actions necessary to cause the Genomic Solutions stock options to be treated as described above. However, if all of the other conditions to closing in the merger agreement have been satisfied or waived, and the aggregate number of shares of Harvard Bioscience common stock subject to converted options held by persons who as of the effective time are not employees of Genomic Solutions is greater than 20,000, Harvard Bioscience will either:

waive the requirement that the aggregate number of shares of Harvard Bioscience common stock subject to converted options held by persons who as of the effective time are not employees of Genomic Solutions is no more than 20,000; or

extend the closing date to October 18, 2002 or later.

Warrants

It is a condition to the merger that each warrant to purchase shares of Genomic Solutions common stock which was outstanding immediately prior to the effective time that remains unexercised, whether vested or unvested, will be terminated. With respect to any Genomic Solutions warrant that has not been exercised and does not terminate in accordance with its terms, Genomic Solutions has agreed, prior to the merger, to obtain the written consent of each warrantholder providing for, among other things, the termination of the warrant.

Termination of Rights under the Genomic Solutions Employee Stock Purchase Plan

Under the terms of the merger agreement, the Genomic Solutions employee stock purchase plan will be terminated as of the effective time of the merger. Except as provided below, outstanding

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purchase rights under the Genomic Solutions employee stock purchase plan will be exercised on the effective date of the merger, and will be converted into the right to receive:

the number of whole shares of Genomic Solutions common stock as the employee's accumulated payroll deductions on such date will purchase; and

cash in the amount of any remaining balance in such participant's account.

Any participant in the plan that has given notice to Genomic Solutions prior to the third to last business day before the effective date of the merger that he or she requests the distribution of his or her entire credit balance in cash will receive cash in the amount of the balance instead of purchasing Genomic Solutions common stock as provided above.

Genomic Solutions' Representations and Warranties

Genomic Solutions has made a number of customary representations and warranties to Harvard Bioscience in the merger agreement regarding aspects of its business, financial condition, structure and other facts pertinent to the merger. These representations and warranties include representations as to:

the corporate organization, existence, good standing and qualification to do business of Genomic Solutions and its subsidiaries;

compliance with applicable laws by Genomic Solutions and its subsidiaries;

permits required to conduct Genomic Solutions' and its subsidiaries' business and compliance with those permits;

the certificates of incorporation and bylaws of Genomic Solutions and its subsidiaries;

authorization of the merger agreement by Genomic Solutions;

approvals by the Genomic Solutions board of directors in connection with the merger;

Genomic Solutions' capitalization;

Genomic Solutions' subsidiaries;

consents and approvals required to complete the merger;

Genomic Solutions' filings and reports with the Securities and Exchange Commission;

Genomic Solutions' consolidated financial statements;

litigation involving Genomic Solutions and its subsidiaries;

changes in Genomic Solutions' and its subsidiaries' business since December 31, 2001 and actions taken by Genomic Solutions since December 31, 2001;

Genomic Solutions' and its subsidiaries' liabilities;

Genomic Solutions' and its subsidiaries' taxes;

Genomic Solutions' and its subsidiaries' properties;

intellectual property matters pertaining to Genomic Solutions and its subsidiaries;

environmental matters pertaining to Genomic Solutions and its subsidiaries;

Genomic Solutions' and its affiliates' employee benefit plans;

Genomic Solutions' and its subsidiaries' labor relations;

payments required to be made by Genomic Solutions and its subsidiaries to brokers and agents in connection with the merger;

the fairness opinion received by Genomic Solutions from Piper Jaffray;

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the vote of Genomic Solutions stockholders required to approve the merger;

the inapplicability of anti-takeover laws to the merger;

Genomic Solutions' and its subsidiaries' material contracts;

the nature of the accounts receivables and inventories of Genomic Solutions and its subsidiaries;

Genomic Solutions' and its subsidiaries' accounting policies;

the status of Genomic Solutions' and its subsidiaries' backlog;

the nature of specified relationships with customers of Genomic Solutions and its subsidiaries;

Genomic Solutions' restructuring plan;

customer warranties and product liability matters;

the absence of specified business practices;

Genomic Solutions' and its subsidiaries' insurance coverage;

Genomic Solutions' and its subsidiaries' ability to treat the merger as a "reorganization" for federal income tax purposes;

the fact that neither Genomic Solutions nor any of its affiliates owns any Harvard Bioscience common stock;

the absence of contracts with affiliates; and

the accuracy of the information supplied by Genomic Solutions in this proxy statement and prospectus. *Harvard Bioscience's Representations and Warranties*

Harvard Bioscience and HAG Acq. Corp. have made a number of customary representations and warranties to Genomic Solutions in the merger agreement regarding aspects of Harvard Bioscience's business, financial condition, structure and other facts pertinent to the merger. These representations and warranties include representations as to:

the corporate organization, existence, good standing and qualification to do business of Harvard Bioscience and its subsidiaries;

compliance with applicable laws by Harvard Bioscience and its subsidiaries;

permits required to conduct Harvard Bioscience's and its subsidiaries' business and compliance with those permits;

the certificate of incorporation and bylaws of Harvard Bioscience and its subsidiaries;

authorization of the merger agreement by Harvard Bioscience and HAG Acq. Corp.;

Harvard Bioscience's and HAG Acq. Corp.'s capitalization;

consents and approvals required to complete the merger;

Harvard Bioscience's filings and reports with the Securities and Exchange Commission;

Harvard Bioscience's consolidated financial statements;

litigation involving Harvard Bioscience and HAG Acq. Corp;

changes in Harvard Bioscience's and its subsidiaries' business since March 31, 2002;

Harvard Bioscience's and its subsidiaries' liabilities;

intellectual property matters pertaining to Harvard Bioscience and its subsidiaries;

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environmental matters pertaining to Harvard Bioscience;

Harvard Bioscience's and its affiliates' employee benefit plans;

Harvard Bioscience's labor relations;

payments required to be made by Harvard Bioscience and its subsidiaries to brokers and agents in connection with the merger;

the fact that no vote of Harvard Bioscience's stockholders is required to approve the merger;

the inapplicability of anti-takeover laws to the merger;

the material contracts of Harvard Bioscience and its subsidiaries;

the accounting policies of Harvard Bioscience and its subsidiaries;

the absence of specified business practices;

Harvard Bioscience's ability to treat the merger as a "reorganization" for federal income tax purposes; and

the fact that neither Harvard Bioscience nor any of its affiliates owns any Genomic Solutions common stock.

None of the representations and warranties made by either party survive the effective time of the merger. The representations and warranties contained in the merger agreement are complicated and not easily summarized. You are urged to carefully read Articles 5 and 6 of the merger agreement entitled "Representations and Warranties of the Company" and "Representations and Warranties of Parent and MergerCo," respectively, of the merger agreement attached to this proxy statement and prospectus.

Genomic Solutions' Conduct of Business Before Completion of the Merger

Under the terms of the merger agreement, Genomic Solutions agreed that, unless Harvard Bioscience otherwise consents in writing, until the earlier of the completion of the merger or termination of the merger agreement, Genomic Solutions and its subsidiaries will, among other things:

carry on its business in the usual, regular and ordinary course, in compliance with their past practices and the requirements of Genomic Solutions' existing contracts; and

use reasonable best efforts to preserve in tact their business organizations, employee base and relationships with third parties, such as customers, suppliers and licensors.

Genomic Solutions has also agreed that, unless Harvard Bioscience otherwise consents in writing, and except as provided below, until the earlier of the completion of the merger or termination of the merger agreement, Genomic Solutions will comply with specified restrictions relating to the operation of its business, including restrictions relating to the following:

splitting, combining, reclassifying, repurchasing, redeeming or otherwise acquiring any shares of its capital stock or other securities, except for dividends paid by a subsidiary to Genomic Solutions or another subsidiary, and except for any reverse stock split declared for the purpose of complying with the Nasdaq listing qualifications;

issuing or selling any of its stock or any other securities or equity equivalents, other than outstanding options;

making any equipment purchases or capital expenditures in excess of \$25,000 in each instance or \$100,000 in the aggregate;

acquiring, selling, leasing, licensing, encumbering, transferring or disposing of any of its material assets outside the ordinary course;

entering into, modifying or amending any agreement related to the licensing of its intellectual property assets outside the ordinary course;

incurring any indebtedness or making any loan or advance outside the ordinary course;

paying, discharging or satisfying any claim, liability or obligation, outside the ordinary course;

changing its accounting policies;

making any material tax elections or settling any material tax liability;

adopting or amending any employee benefit plan or any agreement between Genomic Solutions or its subsidiaries and their directors, officers or employees other than consistent with past practice;

increasing the compensation of any director, officer or employee;

amending its organizational documents;

authorizing a liquidation, dissolution, merger, consolidation, restructuring, recapitalization or reorganization;

settling any pending or threatened material litigation;

amending the term of any outstanding security;

modifying or amending any existing or entering into any new material contract;

licensing, assigning or otherwise transferring any rights to its intellectual property assets outside the ordinary course;

permitting any of its or its subsidiaries' insurance policies to be cancelled;

terminating the employment of any officer of Genomic Solutions or its subsidiaries;

discouraging customers, employees, suppliers, lessors, and other associates of Genomic Solutions and its subsidiaries from maintaining the materially same business relationships;

entering into any agreement with any customer or distributor related to the offering of discounts, extended warranties, service contracts, bundling of any products, rights of return or any other agreements or arrangements outside the ordinary course;

amending or restating any of its Securities and Exchange Commission reports;

engaging in any action that could reasonably be expected to cause the merger to fail to qualify as a reorganization under the Internal Revenue Code;

taking any action which would make any of the representations and warranties made by Genomic Solutions or its subsidiaries in the merger agreement untrue or incorrect; and

agreeing to take any of the actions described above.

However, Genomic Solutions is not required to comply with the above restrictions if the action taken in connection with the operation of its business is expressly permitted by the restructuring plan that Genomic Solutions implemented immediately following the signing of the merger agreement.

In addition, Harvard Bioscience has agreed to permit Genomic Solutions to obtain up to \$5,000,000 in financing, either by issuing its common stock or warrants (which by their terms must terminate upon closing of the merger if not exercised), or by receiving a loan, which loan, among other things, may be prepaid or assumed by Harvard Bioscience without penalty.

The agreements relating to the conduct of Genomic Solutions' business in the merger agreement are complicated and not easily summarized. You are urged to carefully read Article 7 of the merger agreement attached as Annex A to this proxy statement and prospectus.

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Solicitations by Genomic Solutions; Withdrawal of Recommendation by Genomic Solutions Board of Directors

Except as expressly permitted in connection with a superior proposal, until the merger is completed or the merger agreement is terminated, Genomic Solutions has agreed not to, and not to authorize or permit any of its subsidiaries or any officer, director or employee or professional representative of Genomic Solutions or its subsidiaries to:

solicit, initiate or encourage, including by way of furnishing non-public information, or take any other action to facilitate any inquiries or the making of any proposal that constitutes an acquisition proposal;

participate in any discussion with, or otherwise communicate in any way with, any person relating to any acquisition proposal; or

enter into any agreement regarding an acquisition proposal.

Genomic Solutions further agreed to cease and cause to be terminated any existing activities, negotiations or discussions with any persons related to such activities.

Any violation of any of the restrictions described in the preceding paragraph by any officer or director or employee of Genomic Solutions or any of its subsidiaries, or any professional representative of Genomic Solutions or any of its subsidiaries is deemed to be a breach of the relevant restriction by Genomic Solutions.

Under the terms of the merger agreement, Genomic Solutions has agreed to promptly advise Harvard Bioscience of any acquisition proposal or any request or inquiry received by Genomic Solutions with respect to or that could reasonably be expected to lead to an acquisition

proposal, including the terms and conditions of such request, acquisition proposal or inquiry, and the identity of the person making any such request, acquisition proposal or inquiry and to provide to Harvard Bioscience any written materials received in connection with the request, acquisition proposal or inquiry. Genomic Solutions further agreed to keep Harvard Bioscience fully informed of the status and of the discussions including by promptly providing Harvard Bioscience with all related written materials.

Furthermore, except as discussed below in connection with a superior proposal, Genomic Solutions' board of directors is not permitted to:

adversely withdraw or modify, or propose to withdraw or modify, its approval or recommendation of the merger agreement or the merger;

approve or recommend, or propose to approve or recommend, any other acquisition proposal;

approve or recommend, or propose to approve or recommend, or execute or enter into a letter of intent or agreement relating to an acquisition proposal; or

resolve to do any of the foregoing.

For these purposes, an acquisition proposal is a proposed or actual:

tender offer, merger, consolidation or similar transaction involving Genomic Solutions; or

sale, lease or other disposition, directly or indirectly, by merger, consolidation, share exchange or otherwise, of any material assets or securities of Genomic Solutions.

Genomic Solutions is expressly permitted, however, to furnish non-public information regarding Genomic Solutions and its subsidiaries to, and to enter into a confidentiality agreement with or

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participate in discussions or negotiations with, any person in response to an unsolicited superior proposal, if all of the following conditions are met:

the stockholders of Genomic Solutions have not yet adopted and approved the merger agreement and approved the merger;

the non-solicitation provisions described in this section have not been breached by Genomic Solutions or its representatives; and

the Genomic Solutions board of directors determines in good faith, after consultation with its outside legal counsel and financial advisor, that failing to take such action would constitute a breach of its fiduciary duties under applicable law.

Under the terms of the merger agreement, a superior proposal is an unsolicited, bona fide written offer made by a third party to consummate an acquisition proposal, which acquisition proposal is reasonably likely to be consummated, and that:

the Genomic Solutions board of directors determines in good faith, after consulting with its outside legal counsel and its financial advisor, would, if consummated, be reasonably likely to result in a transaction that is more favorable to the stockholders of Genomic Solutions than the merger;

is not conditioned on obtaining financing;

is for all of Genomic Solutions' common stock; and

the Genomic Solutions board of directors determines is, based on the advice of Piper Jaffray (or any other nationally recognized investment banking firm), more favorable to the stockholders of Genomic Solutions, from a financial point of view, than the merger.

Under the terms of the merger agreement, and subject to other terms of the merger agreement (including the payment of a termination fee in specified circumstances), the Genomic Solutions board of directors is permitted to adversely withdraw or modify its recommendation in favor of the merger only if:

a superior proposal is made and not withdrawn;

neither Genomic Solutions nor any of its representatives has breached the non-solicitation provisions of the merger agreement described above; and

the board of directors of Genomic Solutions concludes in good faith, after consultation with its outside legal counsel and financial advisor that, in light of the superior proposal, the withdrawal or modification of its recommendation is required in order for the Genomic Solutions board of directors to comply with its fiduciary duties to Genomic Solutions' stockholders under applicable law.

Genomic Solutions must give Harvard Bioscience at least 48 hours notice of the Genomic Solutions board of directors' intention to take such action, and provide Harvard Bioscience with the opportunity to meet with Genomic Solutions and its legal counsel and financial advisor.

Regardless of whether there has been a superior proposal, and regardless of whether the Genomic Solutions board of directors withdraws or modifies its recommendation in favor of the merger, Genomic Solutions is obligated, under the terms of the merger agreement, to hold and convene the special meeting of Genomic Solutions stockholders at which the merger agreement and the merger will be considered and voted upon and the directors and officers of Genomic Solutions who signed voting agreements are obligated (in their capacities as stockholders) to vote in favor of the adoption and approval of the merger agreement and approval of the merger agreement and entry of the special meeting.

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Under certain circumstances, including in the event that Genomic Solutions accepts a superior proposal and terminates the merger agreement, it will be obligated to pay Harvard Bioscience a termination fee of \$1,300,000. For a description of Genomic Solutions' right to terminate the merger agreement in these circumstances and this termination fee, see the sections of this proxy statement and prospectus entitled " Termination of the Merger Agreement," " Payment of Termination Fee and Expenses" and Article 9 of the merger agreement attached as Annex A to this proxy statement and prospectus.

Genomic Solutions is not prohibited from taking and disclosing to its stockholders a position in conjunction with sections 14d-9 or 14e-2 of the Exchange Act related to a tender or exchange offer.

Other Material Covenants

Nasdaq Listing

In the merger agreement, Harvard Bioscience has agreed to use its reasonable best efforts to cause the shares of its common stock which are to be issued in the merger to be approved for listing on the Nasdaq National Market. It is a condition to the completion of the merger that these shares are in fact so approved for listing.

Officers and Directors Indemnification

After the merger is completed, Harvard Bioscience will preserve all rights to indemnification existing as of July 17, 2002, the date of the merger agreement, in favor of any director, officer, employee or agent of Genomic Solutions and its subsidiaries for a period of at least six years following the merger. Prior to the completion of the merger, Genomic Solutions will purchase an extended reporting period endorsement or "tail" policy under Genomic Solutions' existing director and officer insurance policy to provide the currently covered directors and officers of Genomic Solutions with liability insurance coverage for six years following the completion of the merger.

Access to Information; Confidentiality

Genomic Solutions has agreed to, and to cause each of its subsidiaries and each of its and its subsidiaries' officers, employees and agents to, afford to Harvard Bioscience and Harvard Bioscience's officers, employees and agents, complete access at all reasonable times to such officers, employees, agents, properties, books, records and contracts, and shall furnish to Harvard Bioscience other such financial, operating and other data and information as Harvard Bioscience may reasonably request. Prior to the effective time, Harvard Bioscience has agreed to hold in confidence all such information.

Notification of Specified Event

Each of Harvard Bioscience and Genomic Solutions agreed that it will promptly advise the other party of:

any change or event which it believes could reasonably be expected to cause any of its representations or warranties contained in the merger agreement to be untrue in any material respect; and

any material failure of such party to comply with any covenant under the merger agreement.

Publicity

Harvard Bioscience and Genomic Solutions have agreed to consult with each other before issuing any press release or otherwise making any public statement with respect to the merger and to not issue

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any press release or make any public statement generally without the prior consent of the other party, which consent will not be unreasonably withheld.

Employee Benefits

Harvard Bioscience and Genomic Solutions have agreed that, after the merger, Genomic Solutions' employees will be eligible to participate in the employee benefit plans of Harvard Bioscience, one of its affiliates or the surviving corporation. Until the time of such eligibility, Genomic Solutions' employees will continue to be eligible to participate in the employee benefit plans of Genomic Solutions. For purposes of determining eligibility and vesting under these plans, Harvard Bioscience will generally recognize Genomic Solutions' employees' years of service with Genomic Solutions to the extent Genomic Solutions recognized their service.

Delisting

Each of Genomic Solutions and Harvard Bioscience have agreed to cooperate with each other in taking, or causing to be taken, all actions necessary to delist Genomic Solutions' common stock from the Nasdaq stock market after the completion of the merger. The Nasdaq stock market has notified Genomic Solutions that Genomic Solutions currently fails to meet the maintenance standards for continued listing on the Nasdaq National Market and that Genomic Solutions common stock is subject to delisting. Genomic Solutions is in the process of filing an appeal with Nasdaq and will continue to be listed on the Nasdaq National Market pending the resolution of this appeal.

Conditions to Completion of the Merger

The obligations of Harvard Bioscience and Genomic Solutions to complete the merger and the other transactions contemplated by the merger agreement are subject to the satisfaction or waiver of each of the following conditions:

the merger agreement must have been adopted and approved, and the merger must have been approved, by the requisite vote of the stockholders of Genomic Solutions;

no statute, order, decree, ruling or injunction may have been enacted or issued which prohibits completion of the merger;

Harvard Bioscience's registration statement on Form S-4 of which this proxy statement and prospectus forms a part must have been declared effective by the Securities and Exchange Commission, no stop order suspending its effectiveness may be in effect and no proceedings for suspension of its effectiveness may be pending before or threatened by the Securities and Exchange Commission; and

the shares of Harvard Bioscience common stock to be issued in the merger must have been approved for listing on the Nasdaq National Market, subject to official notice of issuance.

Genomic Solutions' obligation to complete the merger and the other transactions contemplated by the merger agreement are subject to the satisfaction or waiver of each of the following additional conditions:

each of Harvard Bioscience's and HAG Acq. Corp.'s representations and warranties must have been true and correct as of July 17, 2002, and must continue to be true and correct on and as of the date the merger is to be completed as if made on such date, except:

(1)

to the extent Harvard Bioscience's and HAG Acq. Corp.'s representations and warranties address matters only as of a particular date, they must be true and correct only as of that date; or

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(2)

to the extent that any inaccuracies of such representations and warranties do not in any case, or in the aggregate have, and could not reasonably be expected to have a material adverse effect on Harvard Bioscience and its subsidiaries;

Harvard Bioscience must have performed in all material respects all of the obligations required by the merger agreement to be performed or complied with by it;

Harvard Bioscience and HAG Acq. Corp. must have obtained all consents and approvals required to be obtained in connection with the merger agreement; and

Genomic Solutions must have received from its tax counsel an opinion to the effect that the merger will constitute a tax-free reorganization within the meaning of Section 368(a) of the Internal Revenue Code. If Genomic Solutions' tax counsel is unwilling or unable to render an opinion, Harvard Bioscience's tax counsel may render the opinion.

Harvard Bioscience's obligation to complete the merger and the other transactions contemplated by the merger agreement are subject to the satisfaction or waiver of each of the following additional conditions:

each of Genomic Solutions' representations and warranties must have been true and correct as of July 17, 2002, and must continue to be true and correct on and as of the date the merger is to be completed as if made on such date, except:

(1)

to the extent Genomic Solutions' representations and warranties address matters only as of a particular date, they must be true and correct only as of that date; or

(2)

to the extent that any inaccuracies of such representations and warranties do not individually, or in the aggregate, have or could not reasonably be expected to have a material adverse effect on Genomic Solutions and its subsidiaries, as further described below;

Genomic Solutions must have performed in all material respects all of the obligations required by the merger agreement to be performed by it;

no event that could reasonably be expected to have a material adverse effect on Genomic Solutions may have occurred, as further described below;

Genomic Solutions must have obtained all consents and approvals required by specific contracts identified in the merger agreement;

each of the affiliate letters contemplated by the merger agreement, as described below, must have been delivered;

Genomic Solutions must have taken all action necessary to cause its stock options, warrants, and the shares underlying its stock purchase plan to be treated as provided for in the merger agreement, unless all other conditions to closing in the merger agreement have been satisfied or waived, and the aggregate number of shares of Harvard Bioscience common stock subject to converted options held by persons who as of the effective time are not employees of Genomic Solutions is greater than 20,000, in which case Harvard Bioscience will either:

(1)

waive the requirement that the aggregate number of shares of Harvard Bioscience common stock subject to converted options held by persons who as of the effective time are not employees of Genomic Solutions is no more than 20,000; or

(2)

extend the closing date to October 18, 2002 or later;

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adoption and approval of the merger agreement and approval of the merger by Genomic Solutions stockholders, with receipt of notice of fewer than 5% of the outstanding common stock exercising appraisal rights;

Genomic Solutions must have taken all action necessary to terminate all outstanding registration rights with respect to its common stock; and

Genomic Solutions must have taken all action necessary to terminate all indemnification agreements with continuing officers of Genomic Solutions with respect to actions or events occurring after the effective time of the merger.

For purposes of clause (2) in the first bullet point above, and the third bullet point above, a change, effect, event, occurrence, condition or development that is or is reasonably likely to be materially adverse to the business, operations, assets, liabilities, properties, results of operations, prospects or condition (financial or otherwise) of Genomic Solutions and its subsidiaries taken as a whole that is reasonably capable of monetization will not be deemed to have a "material adverse effect," unless and until it has or is reasonably likely to have at least one of the following effects:

a reduction in net worth of Genomic Solutions of \$1,000,000 or more excluding any non-cash charge or adjustment made solely as a result of an impairment test or assessment made in accordance with SFAS 142 (Goodwill and Other Intangible Assets) but only to the extent that such charge or adjustment was not the result of an inaccurate representation or warranty

made by Genomic Solutions in the merger agreement; or

a reduction in historical revenues for any year or prospective revenues for 2002 or any subsequent year of Genomic Solutions of \$1,000,000 or more.

Termination of the Merger Agreement

The merger agreement may be terminated in accordance with its terms at any time prior to completion of the merger, whether before or after the adoption and approval of the merger agreement and approval of the merger by Genomic Solutions' stockholders:

by mutual written consent of Harvard Bioscience and Genomic Solutions;

by Harvard Bioscience or Genomic Solutions, if Genomic Solutions' stockholders fail to adopt and approve the merger agreement and approve the merger at the Genomic Solutions special meeting or at any adjournment of that meeting, except that the right to terminate the merger agreement under this provision is not available to Genomic Solutions where the failure to obtain stockholder approval was caused by Genomic Solutions' action or failure to act which constitutes a breach by Genomic Solutions of the merger agreement;

by Harvard Bioscience or Genomic Solutions, if any governmental authority has issued a final and nonappealable injunction, which prohibits the completion of merger;

by Harvard Bioscience or Genomic Solutions, if the merger is not completed before October 31, 2002 (or in the event that the registration statement on Form S-4 is reviewed by the Securities and Exchange Commission, the earlier of the date which is the same number of days after October 31, 2002 as the number of days from the date of the initial filing of the registration statement on Form S-4 to the date of the receipt of notification from the Securities and Exchange Commission that the registration statement on Form S-4 has been cleared and December 31, 2002), except that either party's right to terminate the merger agreement under this provision will not be available to any party who is in material breach of the merger agreement or because of an injunction;

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by Genomic Solutions, upon a breach of any representation, warranty, covenant or agreement on the part of Harvard Bioscience or HAG Acq. Corp. in the merger agreement, if the breach has not been cured within 10 business days after delivery of written notice to Harvard Bioscience of the breach. If the breach is cured during those 10 business days, or if the breach has not and is not reasonably likely to have a material adverse effect on Harvard Bioscience, Genomic Solutions may not terminate the merger agreement under this provision;

by Harvard Bioscience, upon a breach of any representation, warranty, covenant or agreement on the part of Genomic Solutions set forth in the merger agreement, if the breach has not been cured within 10 business days after delivery of written notice to Genomic Solutions of the breach. If the breach is cured during those 10 business days, or if the breach has not had and is not reasonably likely to have a material adverse effect on Genomic Solutions, as further described below, Harvard Bioscience may not terminate the merger agreement under this provision;

by Harvard Bioscience, if Genomic Solutions has breached the provisions of the merger agreement that prohibit the solicitation of, and discussions and negotiations with respect to, acquisition proposals;

by Harvard Bioscience, if any of the persons who signed voting agreements has breached any representation, warranty, covenant or other agreement contained in the voting agreements and as a result Genomic Solutions has not obtained the required vote of its stockholders;

by Harvard Bioscience, if:

Genomic Solutions' board of directors withdraws or modifies in a manner adverse to Harvard Bioscience or HAG Acq. Corp. its recommendation in favor of the adoption and approval of the merger agreement or the approval of the merger;

Genomic Solutions' board of directors approves or recommends any other acquisition proposal;

Genomic Solutions' board of directors approves, recommends, executes or enters into any agreement relating to any other acquisition proposal; or

(4)

(1)

(2)

(3)

a tender or exchange offer relating to the securities of Genomic Solutions is commenced by a person unaffiliated with Harvard Bioscience, and Genomic Solutions does not send to its securityholders within 10 business days after such tender or exchange offer is first published, sent or given, a statement disclosing that Genomic Solutions recommends rejection of such tender or exchange offer.

For purposes of the sixth bullet point above, a change, effect, event, occurrence, condition or development that is or is reasonably likely to be materially adverse to the business, operations, assets, liabilities, properties, results of operations, prospects or condition (financial or otherwise) of Genomic Solutions and its subsidiaries taken as a whole that is reasonably capable of monetization will not be deemed to have a "material adverse effect," unless and until it has or is reasonably likely to have at least one of the following effects:

a reduction in net worth of Genomic Solutions of \$1,000,000 or more excluding any non-cash charge or adjustment made solely as a result of an impairment test or assessment made in accordance with SFAS 142 (Goodwill and Other Intangible Assets) but only to the extent that such charge or adjustment was not the result of an inaccurate representation or warranty made by Genomic Solutions in the merger agreement; or

a reduction in historical revenues for any year or prospective revenues for 2002 or any subsequent year of Genomic Solutions of \$1,000,000 or more.

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If the merger agreement is terminated because of any of the reasons listed above:

it will become null and void and, except in the limited circumstances described below, have no effect, without any liability by any party to the merger agreement or its affiliates, directors, officers or stockholders; and

all rights and obligations of any party to the merger agreement other than specified agreements will cease.

However, regardless of the reason for termination of the merger agreement, none of the parties will be relieved from liability for fraud or willful breach of the merger agreement. Additionally, in limited circumstances, as described below, Genomic Solutions may be obligated to pay Harvard Bioscience a termination fee or to reimburse Harvard Bioscience's out-of-pocket expenses.

Payment of Termination Fee and Expenses

The merger agreement requires Genomic Solutions to pay Harvard Bioscience a termination fee of \$1,300,000 in cash if Harvard Bioscience terminates the merger agreement because:

Genomic Solutions has breached the provisions of the merger agreement that prohibit the solicitation of, and discussions and negotiations with respect to, acquisition proposals; or

Genomic Solutions' board of directors:

- withdraws or modifies in a manner adverse to Harvard Bioscience or HAG Acq. Corp., its recommendation in favor of the adoption and approval of the merger agreement or the approval of the merger;
- (2) approves or recommends any other acquisition proposal; or

(3) approves, recommends, executes or enters into any agreement relating to any other acquisition proposal; or

a tender or exchange offer relating to the securities of Genomic Solutions is commenced by a person unaffiliated with Harvard Bioscience, and Genomic Solutions does not send to its securityholders within 10 business days after such tender or exchange offer is first published, sent or given, a statement disclosing that Genomic Solutions recommends rejection of such tender or exchange offer.

Furthermore, the merger agreement requires Genomic Solutions to reimburse Harvard Bioscience for its out-of-pocket expenses (including, without limitation, legal, accounting, investment banking and printing fees) incurred in connection with pursuing the merger if Harvard Bioscience terminates the merger agreement because:

Genomic Solutions breaches any representation, warranty, covenant or agreement set forth in the merger agreement, the breach has had or is reasonably likely to have a material adverse effect on Genomic Solutions, as further described below, and the breach has not been cured within 10 business days after delivery of written notice to Genomic Solutions of the breach; or

any of the persons who signed voting agreements breaches any representation, warranty, covenant or other agreement contained in the voting agreements and as a result Genomic Solutions has not obtained the required vote of its stockholders.

For purposes of the first bullet point above, a change, effect, event, occurrence, condition or development that is or is reasonably likely to be materially adverse to the business, operations, assets, liabilities, properties, results of operations, prospects or condition (financial or otherwise) of Genomic Solutions and its subsidiaries taken as a whole that is reasonably capable of monetization will not be

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deemed to have a "material adverse effect," unless and until it has or is reasonably likely to have at least one of the following effects:

a reduction in net worth of Genomic Solutions of \$1,000,000 or more excluding any non-cash charge or adjustment made solely as a result of an impairment test or assessment made in accordance with SFAS 142 (Goodwill and Other Intangible Assets) but only to the extent that such charge or adjustment was not the result of an inaccurate representation or warranty made by Genomic Solutions in the merger agreement; or

a reduction in historical revenues for any year or prospective revenues for fiscal year 2002 or any subsequent year of Genomic Solutions of \$1,000,000 or more.

Except with respect to the termination fee and expense reimbursement described above, each party will pay all fees and expenses it incurs in the merger, except that Harvard Bioscience and Genomic Solutions will split equally all fees and expenses incurred in connection with the filing with the Securities and Exchange Commission of the registration statement on Form S-4 of which this proxy statement and prospectus forms a part, the printing and mailing of this proxy statement and prospectus and any antitrust filing fees.

Extension, Waiver and Amendment of the Merger Agreement

Harvard Bioscience and Genomic Solutions may amend the merger agreement before completion of the merger by mutual written consent.

Either Harvard Bioscience or Genomic Solutions may extend the other party's time for the performance of any of the obligations or other acts under the merger agreement, waive any inaccuracies in the other's representations and warranties and waive compliance by the other party with any of the agreements or conditions contained in the merger agreement.

Definition of Material Adverse Effect

Under the terms of the merger agreement, a *material adverse effect* on either Genomic Solutions or Harvard Bioscience is defined to mean any change, effect, event, occurrence, condition or development that is or is reasonably likely to be materially adverse to:

the business, operations, assets, liabilities, properties, results of operations, prospects or condition (financial or otherwise) of such entity and its subsidiaries as a whole; or

the ability of such entity to perform its obligations under the merger agreement.

However, only for purposes of:

Harvard Bioscience's obligation to complete the merger if each of Genomic Solutions' representations and warranties are true and correct as of July 17, 2002 and as of the date the merger is to be completed, except to the extent that any inaccuracies of such representations and warranties do not individually, or in the aggregate, have or could not reasonably be expected to have a material adverse effect on Genomic Solutions and its subsidiaries;

Harvard Bioscience's obligation to complete the merger unless any event that could reasonably be expected to have a material adverse effect on Genomic Solutions has occurred between July 17, 2002 and the closing date; and

Harvard Bioscience's right to terminate the merger agreement if Genomic Solutions breaches any of its representations, warranties, covenants or agreements set forth in the merger agreement (and which have not been cured), other than breaches which have not had and are not reasonably likely to have a material adverse effect on Genomic Solutions;

a change, effect, event, occurrence, condition or development that is or is reasonably likely to be materially adverse to the business, operations, assets, liabilities, properties, results of operations, prospects or condition (financial or otherwise) of Genomic Solutions and its subsidiaries taken as a whole that is reasonably capable of monetization will not be deemed to have a "material adverse effect," unless and until it has or is reasonably likely to have at least one of the following effects:

a reduction in net worth of Genomic Solutions of \$1,000,000 or more excluding any non-cash charge or adjustment made solely as a result of an impairment test or assessment made in accordance with SFAS 142 (Goodwill and Other Intangible Assets) but only to the extent that such charge or adjustment was not the result of an inaccurate representation or warranty made by Genomic Solutions in the merger agreement; or

a reduction in historical revenues for any year or prospective revenues for 2002 or any subsequent year of Genomic Solutions of \$1,000,000 or more.

Material United States Federal Income Tax Consequences of the Merger

The following is a discussion of the material federal income tax consequences of the merger to holders of Genomic Solutions common stock. The discussion is based upon the Internal Revenue Code of 1986, as amended, Treasury Regulations, Internal Revenue Service rulings,

and judicial and administration decisions in effect as of the date of this proxy statement and prospectus and assumes that the transaction will qualify as a tax free reorganization under Section 368(a) of the Internal Revenue Code. This discussion assumes that Genomic Solutions' common stock is a capital asset in the hands of Genomic Solutions stockholders. In addition, this discussion does not address any non-income tax consequences, any state, local, or non-U.S. tax consequences, or any tax consequences that may be relevant to Genomic Solutions in light of your particular circumstances or to stockholders subject to special rules, such as:

non-U.S. persons;

tax-exempt organizations;

partnerships, sub-chapter S corporations and other pass-through entities;

mutual funds;

small business investment companies;

regulated investment companies;

dealers in securities or foreign currencies;

insurance companies and other financial institutions;

traders who mark-to-market or insurance companies;

persons who acquired their common stock as compensation; and

persons who are subject to the federal alternative minimum tax.

The opinion of counsel referred to in this section will be based on facts existing on the closing date of the merger. In rendering its opinion, counsel will require and rely upon representations contained in certificates of Genomic Solutions officers and those of Harvard Bioscience.

It is a condition to the obligation of Genomic Solutions and Harvard Bioscience to complete the merger that Genomic Solutions receive an opinion from Jaffe, Raitt, Heuer & Weiss, P.C., dated as of the closing date of the merger, that the merger will be treated as a reorganization within the meaning of the Internal Revenue Code. If Genomic Solutions' tax counsel is unable or unwilling to render a tax opinion, Harvard Bioscience's tax counsel may render the tax opinion. If the merger is treated as a

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reorganization, neither Genomic Solutions nor Harvard Bioscience will recognize any gain or loss as a result of the merger.

The tax opinion to be delivered to Genomic Solutions in connection with the merger is not binding on the Internal Revenue Service or the courts, and neither Genomic Solutions nor Harvard Bioscience intends to request a ruling from the Internal Revenue Service with respect to the merger.

The tax consequences of the merger to you vary depending upon your particular circumstances. Therefore, you should consult your tax advisor to determine the particular federal, state, local, and non-U.S. tax consequences of the merger to you.

In the merger, each of Genomic Solutions' stockholders (other than those properly exercising appraisal rights) will exchange his or her Genomic Solutions common stock for Harvard Bioscience common stock and cash. Genomic Solutions stockholders will not be permitted to recognize any loss for federal income tax purposes from the exchange, except with respect to cash in lieu of a fractional share of Harvard Bioscience common stock as described below. Apart from any gain recognize gain, if any, on the exchange of their shares of Genomic Solutions stock equal to the lesser of:

the amount of cash received in the exchange of that share, excluding cash received in lieu of a fractional share of Harvard Bioscience, and

the sum of the cash received in the exchange of that share, excluding any cash received in lieu of a fractional share of Harvard Bioscience common stock, plus the fair market value at the effective time of the merger of the Harvard Bioscience common stock received in exchange for that share, less the basis in a Genomic Solutions stockholder's shares to be surrendered in exchange for the Harvard Bioscience common stock and cash.

Generally, any recognized gain will be capital gain. Capital gain recognized by Genomic Solutions stockholders will be treated as long-term capital gain if the holding period of such share exceeds one year. The capital gain will be short-term capital gain if the holding period of such share does not exceed one year. The tax basis of the shares of Harvard Bioscience common stock received by Genomic Solutions stockholders, including a fractional share of Harvard Bioscience common stock for which cash is received, will be the same as the basis of the shares of Genomic Solutions common stock surrendered in exchange for the shares of Harvard Bioscience common stock, reduced by the amount of cash received, other than any cash received in lieu of a fractional share of Harvard Bioscience common stock, and increased by the amount of gain recognized in the exchange, other than gain recognized in connection with cash received in lieu of a fractional share. The holding period for shares of Harvard Bioscience common stock surrendered in exchange for Harvard Bioscience will include that stockholder's holding period of shares of Genomic Solutions common stock surrendered in exchange for Harvard Bioscience common stock.

Genomic Solutions stockholders' federal income tax consequences will also depend on whether that stockholder's shares of Genomic Solutions common stock were purchased at different prices or otherwise have different tax bases. If they were, that stockholder could realize gain with respect to some of the shares of Genomic Solutions common stock and loss with respect to those shares in which that stockholder's adjusted basis is less than the amount of cash plus the fair market value at the effective time of the merger of Harvard Bioscience common stock received, but that stockholder would not be allowed to recognize loss with respect to those shares in which his or her adjusted basis is greater than the amount of cash plus the fair market value at the effective time of the Harvard Bioscience common stock received. As set forth above, any disallowed loss would be included in the adjusted basis of the Harvard Bioscience common stock. You are urged to consult your own tax advisor with respect to the tax consequences of the merger to you.

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If a stockholder receives cash in lieu of a fractional share of Harvard Bioscience common stock, that stockholder will be treated as having received the fractional share in the merger and as having that fractional share subsequently redeemed by Harvard Bioscience. A Genomic Solutions stockholder generally will recognize gain or loss in the amount equal to the difference between the amount of cash received for the fractional share and the portion of his or her adjusted tax basis in his or her newly received Harvard Bioscience common stock that is allocated to the fractional share. The gain or loss generally will be treated as capital gain or loss.

Backup Withholding

Backup withholding of U.S. federal income tax at a 30% rate (for 2002) may apply to cash payments received by you in connection with the merger if you are not an "exempt recipient" and fail to provide Harvard Bioscience with certain identifying information (such as your federal taxpayer identification number) and certification in the manner required by the Internal Revenue Code and Treasury Regulations. Any amounts withheld under the backup withholding rules may be allowed as a refund or a credit against your federal income tax liability, provided that the required information is timely furnished to the Internal Revenue Service.

The foregoing is a summary discussion of the material federal income tax consequences of the merger and does not purport to be a complete analysis or discussion of all potential tax effects relevant to the merger. Thus, you are urged to consult your own tax advisors as to the specific tax consequences to you of the merger, including tax return requirements, the applicability and effect of federal, state, local, foreign and other tax laws and the effect of any proposed changes in the tax laws.

Accounting Treatment of the Merger

The merger will be accounted for using the "purchase" method of accounting and Harvard Bioscience will be considered the acquiror of Genomic Solutions for accounting purposes. Accordingly, the historical financial statements of Harvard Bioscience will become the historical financial statements of the combined company following the merger.

Regulatory Filings and Approvals Required to Complete the Merger

Neither Harvard Bioscience nor Genomic Solutions is aware of any material governmental or regulatory approval required for completion of the merger, other than compliance with applicable corporate law of the State of Delaware and federal and state securities laws.

Restrictions on Sales of Harvard Bioscience Common Stock by Affiliates of Genomic Solutions

The shares of Harvard Bioscience common stock to be issued in connection with the merger have been registered under the Securities Act and will be freely transferable under the Securities Act, except for shares of Harvard Bioscience common stock issued to any person who is deemed to be an "affiliate" of either Harvard Bioscience or Genomic Solutions and shares subject to other contractual restrictions. Persons who may be deemed to be affiliates include individuals or entities that control, are controlled by, or are under common control of either of Harvard Bioscience or Genomic Solutions and may include some of Genomic Solutions' officers and directors, as well as its principal stockholders. Affiliates may resell their shares of Harvard Bioscience common stock acquired in connection with the merger only in transactions permitted by Rule 145 under the Securities Act or as otherwise permitted under the Securities Act.

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As a condition to the obligations of Harvard Bioscience and HAG Acq. Corp. to effect the merger, each director, executive officer and 5% stockholder of Genomic Solutions is required to enter into an affiliate agreement with Harvard Bioscience. Under the terms of the affiliate agreements, such affiliates have agreed not to make any sale, transfer or other disposition of any shares of Harvard Bioscience common stock except in certain specified situations, including:

pursuant to an effective registration statement under the Securities Act covering the resale of those shares;

in compliance with Rule 145 under the Securities Act;

in compliance with Rule 144 under the Securities Act; or

in compliance with any other applicable exemption under the Securities Act.

The affiliate agreements also allow Harvard Bioscience to place appropriate legends on the certificates evidencing any shares of Harvard Bioscience common stock received by the affiliates in the merger, and to issue stop transfer instructions to the transfer agent for such Harvard Bioscience common stock received by the affiliates.

This proxy statement and prospectus does not cover the resale of shares of Harvard Bioscience common stock to be received by any person in the merger, and no person is authorized to make any use of this proxy statement and prospectus in connection with any such resale.

Listing on the Nasdaq National Market of Harvard Bioscience Common Stock to be Issued in the Merger

Harvard Bioscience has agreed to cause the shares of Harvard Bioscience common stock to be issued in the merger to be approved for listing on the Nasdaq National Market before the completion of the merger, subject to official notice of issuance. Such approval is a condition to the consummation of the merger.

Delisting and Deregistration of Genomic Solutions Common Stock after the Merger

When the merger is completed, Genomic Solutions common stock will be delisted from the Nasdaq stock market and will be deregistered under the Exchange Act.

Dissenters' Rights of Appraisal

Under Section 262 of the Delaware General Corporation Law, instead of receiving the merger consideration, holders of Genomic Solutions common stock are entitled to dissent from the merger, request a judicial appraisal of the fair value of their shares of Genomic Solutions common stock and, if the merger is consummated and all requirements of Section 262 are satisfied by Genomic Solutions stockholders seeking to exercise appraisal rights, to receive payment equal to the fair value of their shares of Genomic Solutions common stock, as determined in the manner set forth under Section 262. The Genomic Solutions stockholders who are eligible to, and do, exercise their appraisal rights with respect to the merger are referred to as dissenting stockholders, and the shares of Genomic Solutions common stock with respect to which appraisal rights are exercised are referred to as dissenting shares. The following is a summary of Section 262 which sets forth the procedures that Genomic Solutions stockholders must follow in order to object to the proposal to adopt and approve the merger agreement and approve the merger and to demand statutory appraisal rights. This summary is qualified in its entirety by reference to the full text of Section 262 which is included as Annex C to this proxy statement and prospectus. Section 262 should be reviewed carefully and in its entirety by any Genomic Solutions stockholder who wishes to exercise appraisal rights or preserve the right to do so. Failure to

strictly follow the procedures set forth in Section 262 on a timely basis may result in a termination or loss of appraisal rights.

Notice of Appraisal Rights

Under Section 262, not less than 20 days prior to the special meeting of Genomic Solutions stockholders to be held on October 24, 2002, at which the merger agreement and the merger will be considered and voted upon, Genomic Solutions must notify each of its stockholders entitled to appraisal rights as of the record date of the special meeting that appraisal rights are available, and include in that notice a copy of Section 262. This proxy statement and prospectus constitutes notice to the Genomic Solutions stockholders and includes a copy of Section 262 which is attached as Annex C to this proxy statement and prospectus.

Perfecting Appraisal Rights

To perfect appraisal rights, a dissenting stockholder shall, before the taking of the vote on the merger agreement and the merger, deliver a written demand for appraisal of his or her shares of Genomic Solutions common stock to: Genomic Solutions Inc., 4355 Varsity Drive, Suite E, Ann Arbor, Michigan 48108, Attention: Gary A. Kendra, Secretary. Genomic Solutions recommends that this written demand be sent by registered or certified mail, with return receipt requested. Pursuant to Section 262, the written demand for appraisal must reasonably inform Genomic Solutions of the identity of the stockholder of record and his or her intention to seek appraisal of his or her shares of Genomic Solutions common stock. A proxy or vote against the merger agreement and the merger will not constitute this demand.

Only Record Holders May Demand Appraisal Rights

A demand for appraisal must be executed by and in the name of the holder of record, fully and correctly, as that holder's name appears on the stock certificate(s) representing the holder's shares. A holder of shares of Genomic Solutions common stock wishing to exercise appraisal rights must be the holder of record of those shares on the date written demand for appraisal is made, must continue to hold those shares until the effective date and must not vote in favor of, or consent in writing to, the merger agreement and the merger. If shares are owned of record by more than one person, as in a joint tenancy or tenancy in common, the demand must be executed by all joint owners. An authorized agent, including an agent for two or more joint owners, may execute the demand for appraisal for a holder of record owner. A record owner, such as a broker, who holds shares as a nominee for others, may exercise appraisal rights with respect to the shares held for all or less than all beneficial owners of shares as to which the holder is the record owner. In that case the written demand must set forth the number of shares covered by the demand will be presumed to cover all shares outstanding in the name of the record owner. Beneficial owners who are not record owners and who intend to exercise appraisal rights should instruct the record owner to comply strictly with the statutory requirements with respect to the exercise of appraisal rights.

Where shares are held in "street name," a holder who desires appraisal rights with respect to his or her shares must take such actions as may be necessary to ensure that a timely and proper demand for appraisal is made by the record owner of those shares. Shares held through brokerage firms, banks and other financial institutions are frequently deposited with and held of record in the name of a nominee of a central security depository, such as The Depository Trust Company. Any holder desiring appraisal rights with respect to his or her shares held of record by a brokerage firm, bank or other 88

financial institution is responsible for ensuring that the demand for appraisal is made by the record holder. The holder should instruct such firm, bank or institution that the demand for appraisal must be made by the record holder of the shares, which might be the nominee of a central security depository if the shares have been so deposited. As required by Section 262, a demand for appraisal must reasonably inform the surviving corporation of the identity of the record holder (which might be a nominee as described above) and of the holder's intention to seek appraisal of his or her shares.

Notice of Effective Date

Within 10 days after the effective date of the merger, the surviving corporation shall notify each of the dissenting stockholders who has complied with Section 262 and has not voted in favor of or consented to the merger agreement and the merger of the date that the merger became effective.

Appraisal Proceeding by Delaware Court of Chancery

Within 120 days after the effective time, the surviving corporation or any dissenting stockholder who has complied with the requirements of Section 262 and who is otherwise entitled to appraisal rights may file a petition in the Delaware Court of Chancery demanding a determination of the fair value of the shares of the dissenting stockholders. HAG Acq. Corp., as the surviving corporation in the merger, is under no obligation to and has no present intention to file a petition with respect to the appraisal of the fair value of the shares of Genomic Solutions common stock. Accordingly, it is the obligation of Genomic Solutions' stockholders to initiate all necessary action to perfect appraisal rights within the time prescribed in Section 262.

Within 120 days after the effective time, any dissenting stockholder who has complied with the requirements for exercise of appraisal rights will be entitled, upon written request, to receive from the surviving corporation a statement setting forth the aggregate number of shares of Genomic Solutions common stock with respect to which demands for appraisal have been received and the aggregate number of holders of those shares. This statement must be mailed to holders of Genomic Solutions common stock within 10 days after a written request has been received by the surviving corporation or within 10 days after expiration of the period for delivery of demands for appraisal by holders of Genomic Solutions common stock outlined above, whichever is later.

If a petition for an appraisal is timely filed, the Court of Chancery will hold a hearing, determine which stockholders are entitled to appraisal rights and appraise the shares owned by those stockholders, determining the fair value of their shares, exclusive of any element of value arising from the accomplishment or expectation of the merger, together with a fair rate of interest to be paid, if any, upon the amount determined to be the fair value. Genomic Solutions stockholders considering seeking appraisal of their shares should be aware that the fair value of their shares determined under Section 262 could be more than, the same as, or less than the merger consideration they are entitled to receive pursuant to the merger agreement if they do not seek appraisal of their shares and that opinions of investment banking firms as to fairness from a financial point of view are not necessarily opinions as to fair value under Section 262.

In determining fair value, the Court of Chancery is to take into account all relevant factors. In *Weinberger v. UOP, Inc., et al.*, the Delaware Supreme Court discussed the factors that could be considered in determining fair value in an appraisal proceeding, stating that "proof of value by any techniques or methods which are generally considered acceptable in the financial community and otherwise admissible in court" should be considered, and that "[f]air price obviously requires consideration of all relevant factors involving the value of a company." The Delaware Supreme Court stated that, in making this determination of fair value, the court must consider "market value, asset value, dividends, earnings prospects, the nature of the enterprise and any other facts which were known or which could be ascertained as of the date of merger which throw any light on future prospects of the



merged corporation." The Delaware Supreme Court construed Section 262 to mean that "elements of future value, including the nature of the enterprise, which are known or susceptible of proof as of the date of the merger and not the product of speculation, may be considered." The Delaware Supreme Court noted that Section 262 provides that fair value is to be determined "exclusive of any element of value arising from the accomplishment or expectation of the merger." In addition, Delaware courts have decided that the statutory appraisal remedy, depending on factual circumstances, may or may not be a dissenting stockholder's exclusive remedy.

The cost of the appraisal proceeding may be determined by the Delaware Court of Chancery and taxed upon the parties as the Court of Chancery deems equitable in the circumstances. Upon application of a dissenting stockholder, the Court of Chancery may order that all or a portion of the expenses incurred by any dissenting stockholder in connection with the appraisal proceeding, including, without limitation, reasonable attorneys' fees and the fees and expenses of experts, be charged pro rata against the value of all shares entitled to appraisal. In the absence of such a determination or assessment, each party bears its own expenses.

Effect of Appraisal Demand on Voting and Right to Dividends

Any stockholder who has duly demanded an appraisal in compliance with Section 262 will not, after the effective time, be entitled to vote the shares subject to the demand for appraisal for any purpose. The shares subject to the demand for appraisal will not be entitled to dividends or other distributions other than those payable or deemed to be payable to stockholders of record as of a date prior to the effective time.

Loss, Waiver or Withdrawal of Appraisal Rights

At any time within 60 days after the effective time, any dissenting stockholder shall have the right to withdraw his or her demand for appraisal and to accept the terms offered in the merger. After this period, a dissenting stockholder may withdraw his or her demand for appraisal only with the consent of the surviving company. If no petition for appraisal is filed with the Court of Chancery within 120 days after the effective time, all stockholders' rights to appraisal will be lost (although such stockholders will remain entitled to receive the merger consideration, without interest, pursuant to the merger agreement). However, no petition timely filed in the Court of Chancery demanding appraisal shall be dismissed as to any stockholder without the approval of the Court of Chancery, and such approval may be conditioned upon such terms as the Court of Chancery deems just.

Other Material Agreements Relating to the Merger

Voting Agreements

As a condition to the willingness of Harvard Bioscience and HAG Acq. Corp. to enter into the merger agreement, directors and certain of their affiliates, and specified officers of Genomic Solutions, who together held approximately 38% of the outstanding shares of Genomic Solutions common stock as of July 17, 2002, each executed a voting agreement with Harvard Bioscience dated as of July 17, 2002.

In the voting agreements, these Genomic Solutions stockholders agreed to:

vote their shares and any newly acquired shares in favor of adoption and approval of the merger agreement and approval of the merger and any matter necessary for consummation of the merger;

vote their shares and any newly acquired shares against approval of any acquisition proposal (including, without limitation, any superior proposal);

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vote their shares and any newly acquired shares against any proposal for any action or agreement that would result in a breach of any covenant, representation or warranty or any other obligation or agreement of Genomic Solutions under the merger agreement or which could result in any of the conditions of Genomic Solutions' obligations under the merger agreement not being fulfilled;

vote their shares and any newly acquired shares against any action which could reasonably be expected to impede, interfere with, delay, postpone or materially adversely affect consummation of the transactions contemplated by the merger agreement;

vote their shares and any newly acquired shares in favor of any other matter necessary for consummation of the transactions contemplated by the merger agreement, and in connection therewith to execute any documents which are necessary or appropriate in order to effectuate the foregoing; and

grant, and did grant, Harvard Bioscience irrevocable proxies to vote their shares and any newly acquired shares as required by the voting agreement.

Furthermore, each of these stockholders agreed not to:

sell, tender, transfer, pledge, encumber, assign or otherwise dispose of any of its shares or newly acquired shares (except with respect to certain stockholders who are permitted to transfer or sell, and grant participation interests in, their shares of Genomic Solutions common stock to their affiliates so long as the transferee affiliate is required to comply with the documents related to the merger as if it were a record owner of Genomic Solutions' common stock and a direct party to the merger);

deposit any shares or newly acquired shares into a voting trust or enter into a voting agreement or arrangement with respect to such shares or grant any proxy or power of attorney with respect thereto;

enter into any contract, option or other arrangement or undertaking with respect to the direct or indirect sale, transfer, pledge, encumbrance, assignment or other disposition of any shares or newly acquired shares (except with respect to certain stockholders who are permitted to transfer or sell, and grant participation interests in, their shares of Genomic Solutions common stock to their affiliates so long as the transferee affiliate is required to comply with the documents related to the merger as if it were a record owner of Genomic Solutions' common stock and a direct party to the merger); or

take any action that would make any representation or warranty of such stockholder contained in the voting agreement untrue or incorrect or have the effect of preventing or disabling such stockholder from performing such stockholder's obligations under the voting agreement.

The voting agreements terminate upon the earliest to occur of:

the effective time of the merger; and

such date and time as the merger agreement is terminated in accordance with its terms.

The voting agreements are substantially in the form attached to this proxy statement and prospectus as Annex D, and you are urged to read Annex D in its entirety.

Employment Agreement

On January 1, 2000, Genomic Solutions entered into a three year employment agreement with Jeffrey S. Williams, Genomic Solutions' President and Chief Executive Officer. Under this employment agreement, Mr. Williams receives an annual base salary of \$345,000 and is eligible to receive an annual

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performance bonus not to exceed 35% of his annual base salary based upon criteria established by the Compensation Committee of Genomic Solutions' board of directors. The employment agreement provides for a payment to be made to Mr. Williams in an amount equal to two times his base salary paid in the previous twelve months in the event there is a change in control of Genomic Solutions and Mr. Williams does not accept employment with the surviving corporation. In the course of the negotiation of the transactions and in order to induce Mr. Williams to terminate his prior employment agreement and accept employment with the surviving corporation, Harvard Bioscience, Mr. Williams and Genomic Solutions agreed that Mr. Williams would receive the following:

a new employment agreement with the surviving corporation which provides for a reduced base salary; and

a one-time payment of \$690,000 (an amount equal to two times his base salary for fiscal year 2001) payable at the closing of the merger.

Upon the effectiveness of the merger and receipt by Mr. Williams of a \$690,000 payment, Mr. Williams' new employment agreement will become effective and will replace and supersede his prior employment agreement with Genomic Solutions, which will be of no further force or effect at such time. The following summary description of Mr. Williams' new employment agreement is qualified in its entirety by reference to the new employment agreement itself, which is attached as Annex E to this proxy statement and prospectus.

The new employment agreement provides that Mr. Williams will serve as President of HAG Acq. Corp. for a term of 12 months, with such employment agreement automatically extending thereafter for consecutive one-year terms unless otherwise terminated pursuant to the provisions thereof. On the business day following effectiveness of the merger, Harvard Bioscience will take proper corporate action to effect the nomination of Mr. Williams to Harvard Bioscience's board of directors. Under the new employment agreement, Mr. Williams agrees to resign such director position immediately upon termination of his employment with HAG Acq. Corp. for any reason.

Pursuant to the new employment agreement, Mr. Williams will receive a base salary of \$225,000 per year during the term of the employment agreement, which base salary shall be reviewed annually for possible increase or, in limited circumstances, decrease. In addition, Mr. Williams will have the opportunity to earn an annual bonus of up to 100% of his base salary based upon achievement by HAG Acq. Corp. of annual operating profit and/or revenue targets established by HAG Acq. Corp. Within a reasonable period of time following the date of the new employment agreement, Harvard Bioscience will enter into an incentive stock option agreement pursuant to which Harvard Bioscience will grant to Mr. Williams an option to purchase 100,000 shares of Harvard Bioscience's common stock at an exercise price equal to the fair market value of Harvard Bioscience's common stock on the date of grant. The option will vest ratably over four years.

The new employment agreement includes severance provisions that are effective upon the termination of Mr. Williams' employment under certain circumstances. In the event that, within twelve months after a change in control of Harvard Bioscience, Mr. Williams is terminated without cause or Mr. Williams terminates his employment for good reason, Mr. Williams will be entitled to, in HAG Acq. Corp.'s sole discretion, either (a) written notice at least 120 days prior to such termination, or (b) a lump sum payment in cash in an amount equal to 120 days pay under Mr. Williams' then current base salary.

The new employment agreement contains specified restrictive covenants of Mr. Williams for the benefit of HAG Acq. Corp. and its predecessors, successors and affiliates, including but not limited to Harvard Bioscience, relating to (a) non-disclosure by Mr. Williams of confidential or proprietary information, (b) HAG Acq. Corp.'s and its affiliates' exclusive right to all processes, ideas and concepts described in such confidential or proprietary information, (c) HAG Acq. Corp.'s and its affiliates'

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exclusive right to any products, inventions, discoveries or improvements made by Mr. Williams in the course and scope of his employment, (d) nonsolicitation of employees of HAG Acq. Corp. or its subsidiaries for the term of employment and a period ending on the later of first anniversary of (1) the effective date and (2) the date of termination of employment, and (e) noncompetition by Mr. Williams with the business of HAG Acq. Corp. or its subsidiaries for the term of employment and a period ending on the later of the first anniversary of (1) the effective date and (2) the date of termination of employment.

Operations After the Merger

Following the merger, HAG Acq. Corp. will change its name to Genomic Solutions Inc. and will operate as a wholly-owned subsidiary of Harvard Bioscience. Harvard Bioscience will nominate Mr. Williams to Harvard Bioscience's board of directors, the membership of which otherwise will remain unchanged as a result of the merger. The stockholders of Genomic Solutions will become stockholders of Harvard Bioscience, and their rights as stockholders will be governed by the Harvard Bioscience second amended and restated certificate of incorporation, as currently in effect, the Harvard Bioscience bylaws and the laws of the State of Delaware. See the section entitled "Comparison of Rights of Holders of Genomic Solutions Common Stock and Harvard Bioscience Common Stock" beginning on page 129 of this proxy statement and prospectus.

UNAUDITED PRO FORMA CONDENSED COMBINED FINANCIAL INFORMATION

The following unaudited pro forma condensed combined financial statements are presented for illustrative purposes only and do not purport to be indicative of the consolidated financial position and the results of operations for future periods or the results that actually would have been realized had Harvard Bioscience and Genomic Solutions been a consolidated company during the specified periods.

The following unaudited pro forma condensed combined financial statements are based on the respective audited and unaudited historical consolidated financial statements and the notes thereto of Harvard Bioscience and Genomic Solutions after giving effect to the acquisition of Genomic Solutions using the purchase method of accounting and the assumptions and adjustments described below. The estimated purchase price was allocated to the estimated fair value of the assets to be acquired and liabilities to be assumed based on the Genomic Solutions consolidated balance sheet at June 30, 2002. The estimated purchase price allocation is based on a preliminary independent appraisal and management estimates. A final allocation of the purchase price will be completed following the consumation of the merger. The following unaudited pro forma condensed combined statements of operations for the year ended December 31, 2001 and six months ended June 30, 2002 assumes the merger occurred on January 1, 2001. The unaudited pro forma condensed combined balance sheet at June 30, 2002 assumes the merger occurred on June 30, 2002.

The pro forma adjustments were based upon available information and upon certain assumptions as described in the notes to the unaudited pro forma statements that Harvard Bioscience's management believes are reasonable in the circumstances. In accordance with generally accepted accounting principals, the amount allocated to in-process technology will be expensed in the quarter in which the merger is consummated. The estimated in-process research and development ("IPR&D") adjustment has been excluded from the unaudited pro forma condensed combined statements of operations because it is a material, non-recurring charge. The effects of the IPR&D expense have been included in retained earnings in the June 30, 2002 unaudited pro forma condensed combined balance sheet.

The unaudited pro forma condensed combined financial statements and accompanying notes should be read in conjunction with the historical consolidated financial statements and accompanying notes thereto of Harvard Bioscience, Inc. included in its Annual Report on Form 10-K for the year ended December 31, 2001, and its quarterly report on Form 10-Q for the six months ended June 30, 2002, incorporated by reference in this proxy statement and prospectus, and the corresponding separate historical financial statements of Genomic Solutions, each of which is included in this proxy statement and prospectus.

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UNAUDITED PRO FORMA CONDENSED COMBINED BALANCE SHEET

(in thousands)

	Historical As of June 30, 2002								As of June 30, 2002
	Harvard Bioscience		Genomic Solutions		Pro forma adjustments				Pro forma combined
Current assets:									
Cash and cash equivalents	\$	27,025	\$	5,266	\$	(9,000)	(2B)	\$	23,291
Trade accounts receivable, net		8,563		7,156					15,719
Other receivable and other assets		572							572
Inventories		6,498		10,954		531	(2B)		17,983
Catalog costs		254							254
Prepaid expenses		1,077		1,027					2,104
Deferred tax assets		1,435							1,435
Total current assets		45,424		24,403		(8,469)			61,358
Property, plant and equipment, net		3,851		2,650				_	6,501

	Histo As of June		2002				As of June 30, 2002
Other assets:							
Deferred tax asset	256			2,100	(2F)		2,356
Goodwill and indefinite lived intangibles	20,757		9,671	(5,731)	(2B)		24,697
Other definite lived intangibles, net	12,501		3,908	1,566	(2B)		17,975
Other assets	749		1,361				2,110
Total other assets	 34,263		14,940	(2,065)			47,138
Total assets	\$ 83,538	\$	41,993	\$ (10,534)		\$	114,997
Current liabilities:							
Line of credit	\$	\$	2,500			\$	2,500
Current installments of long-term debt	706		44				750
Trade accounts payable	3,182		3,813				6,995
Accrued income taxes payable	1,954						1,954
Accrued expenses	2,439		3,901	\$ 3,430	(2C, G, H)		9,770
Other liabilities	175						175
Deferred revenue	758		696				1,454
Total current liabilities	9,214		10,954	3,430			23,598
Long-term liabilities							
Long-term debt, less current portion	92		44				136
Deferred income tax liability	2,751		63	2,037	(2F)		4,851
Total long-term liabilities	2,843		107	2,037			4,987
Stockholders' equity:							
Common stock	314		31	1	(2B)		346
Additional paid-in capital	154,127		103,043	(86,507)	(2B, C)		170,663
Accumulated deficit Accumulated other comprehensive income	(81,797)		(72,018)	70,381	(2B, D)		(83,434)
(loss)	422		18	(18)	(2B)		422
Notes receivable	(917)		(142)	142	(2B)		(917)
Treasury stock at cost	(668)	_				_	(668)
Total stockholders' equity	71,481		30,932	(16,001)			86,412
Total liabilities and stockholders' equity	\$ 83,538	\$	41,993	\$ (10,534)		\$	114,997

The accompanying notes are an integral part of these unaudited pro forma condensed combined financial statements.

UNAUDITED PRO FORMA CONDENSED COMBINED STATEMENTS OF OPERATIONS

(in thousands, except per share amounts)

For the six months ended June 30, 2002								
Harvard Bioscience			Genomic Solutions		Pro Forma Adjustments		Pro Cor	
\$	25,692	\$	12,716	\$			\$	38,408
	12,405		6,657					19,062
	7,329		6,888					14,217
	2,024		2,483					4,507
	655		13		(13)	(2B)		655
	612		410		(133)	(2A)		889
	2,667		(3,735)		146			(922)
	187		50					237
	95	_	(278)	_				(183)
	282		(228)					54
	2,949		(3,963)		146			(868)
	1,158				(352)	(2F)		806
\$	1,791	\$	(3,963)	\$	498		\$	(1,674)
\$	0.07						\$	(0.06)
	26 470				3 200	(3)		29,670
_	20,470				5,200	(3)		29,070
	27,061				2,609	(3)		29,670
	Bi	Bioscience \$ 25,692 12,405 7,329 2,024 655 612 2,667 187 95 282 2,949 1,158 1,791	Harvard Bioscience G \$ 25,692 \$ \$ 25,692 \$ 12,405 7,329 2,024 655 612 2 2,667 2 2 187 95 2 2,822 2,949 1,158 \$ 1,791 \$ \$ 0.07 1	Harvard Bioscience Genomic Solutions \$ 25,692 \$ 12,716 12,405 6,657 6,657 7,329 6,888 2,024 2,483 2,024 2,483 655 13 612 410 2,667 (3,735) 187 50 95 (278) 282 (228) 2,949 (3,963) 1,158 1,791 \$ (3,963) \$ 0.07 3,963)	Harvard Bioscience Genomic Solutions Have A $\$$ 25,692 $\$$ 12,716 $\$$ $\$$ 25,692 $\$$ 12,716 $\$$ $12,405$ 6,657 1 $12,405$ 6,657 1 $7,329$ 6,888 2,024 2,483 $2,024$ 2,483 1 612 410 1 $2,667$ (3,735) 1 187 50 1 $2,667$ (278) 1 $2,949$ (3,963) 1 $1,158$ 1,791 $\$$ (3,963) $\$$ $\$$ 0.07 $\$$ $3,963$ $\$$	Harvard Bioscience Genomic Solutions Pro Forma Adjustments \$ 25,692 \$ 12,716 \$ 12,405 6,657 - - - 7,329 6,888 - - - 2,024 2,483 - - - 655 13 (13) - - - 612 410 (133) - - - 2,667 (3,735) 146 - - 187 50 - - - 95 (278) - - - 2,949 (3,963) 146 - - 1,158 (3,963) 498 - - \$ 0.07 - - - -	Harvard Bioscience Genomic Solutions Pro Forma Adjustments \$ 25,692 \$ 12,716 \$ 12,405 6,657 - - - 7,329 6,888 - - - 2,024 2,483 - - - 655 13 (13) (2B) - - 612 410 (133) (2A) - - 2,667 (3,735) 146 - - - 187 50 -	Harvard Bioscience Genomic Solutions Pro Forma Adjustments Pro Co. \$ 25,692 \$ 12,716 \$ \$ 12,405 6,657 - - - - 7,329 6,888 - - - - - 2,024 2,483 - - - - - - 655 13 (13) (2B) - - - - 2,667 (3,735) 146 - - - - - 2,667 (278) -

For the six months ended June 30, 2002

The accompanying notes are an integral part of these unaudited pro forma condensed combined financial statements.

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UNAUDITED PRO FORMA CONDENSED COMBINED STATEMENTS OF OPERATIONS

(in thousands, except per share amounts)

For the year ended December 31, 2001

Harvard	Genomic	Pro Forma	Pro Forma
Bioscience	Solutions	Adjustments	Combined

For the year	ended	December	31, 2001	

Revenues	\$ 40,868	\$ 16,840	\$			\$ 57,708
Operating expenses:						
Cost of product and service revenues Selling, marketing, general and administrative	20,179	11,792				31,971
expense	11,841	13,757				25,598
Research and development	3,179	6,797				9,976
Stock compensation expense	2,679	26		(26)	(2B)	2,679
Amortization of goodwill and other intangibles	1,744	353		202	(2A)	2,299
In-process research and development expense	5,447	4,200				9,647
Restructuring costs	460	6,736				7,196
Operating income (less)	 (4,661)	 (26,821)		(176)		 (21.659)
Operating income (loss)	 (4,001)	(20,821)		(170)		 (31,658)
Other (expense) income:						
Interest, net	1,352	941				2,293
Other	(109)	(220)				(329)
Total other income (expense), net	1,243	721				1,964
Income (loss) before income taxes	(3,418)	(26,100)	&n	b		