		Registration	on No. 333
	SECURITIES AND EX	ED STATES XCHANGE COMMISSION TON, D.C. 20549	
		ORM S-8 NDER THE SECURITIES ACT OF 1933	
		SIOSCIENCE, INC. ant as Specified in Its Charter)	
(St	Delaware ate of Incorporation)	04-3306140 (I.R.S. Employer Identification No.)	
Ho	4 October Hill Road lliston, Massachusetts f Principal Executive Offices)	01746 (Zip Code)	
	EMPLOYEE STO	FIOSCIENCE, INC. OCK PURCHASE PLAN de of the Plan)	
	HARVARD B 84 Octol Holliston, Ma (508)	n, Chief Executive Officer HOSCIENCE, INC. ber Hill Road assachusetts 01746 ) 893-8999 er, including area code, of agent for service)	
	Chao Burns & 125 Su Boston, Ma	d J. Porter Levinson LLP mmer Street ssachusetts 02110 ) 345-3000	
		accelerated filer, a non-accelerated filer, or a smaller reporting or ting company" in Rule 12b-2 of the Exchange Act.	company. See the
Large accelerated filer		Accelerated filer	X
Non-accelerated filer	$\square$ (Do not check if a smaller reporting compa	any) Smaller reporting company	X
		Emerging growth company	
	npany, indicate by check mark if the registrant has ng standards provided pursuant to Section 7(a)(2)(	s elected not to use the extended transition period for complying B) of the Securities Act $\square$	with any new or

# **Calculation of Registration Fee**

		Proposed	Proposed	
	Amount	Maximum	Maximum	
Title of Securities	to be	Offering Price	Aggregate	Amount of
to be Registered	Registered(1)	Per Share(2)	Offering Price(2)	Registration Fee
Common Stock, par value \$0.01 per share	350,000 shares	\$2.31	\$808,500	\$98.00

- (1) This Registration Statement relates to 350,000 shares of Common Stock, par value \$0.01 per share, of Harvard Bioscience, Inc. ("Common Stock") available for issuance under the Harvard Bioscience, Inc. Employee Stock Purchase Plan (as amended, the "ESPP"); plus such indeterminate number of additional shares of Common Stock as may be required pursuant to the ESPP in the event of a stock dividend, stock split, split-up, recapitalization or other similar event.
- (2) This estimate is made pursuant to Rule 457(c) and (h) under the Securities Act of 1933, as amended (the "Securities Act"), solely for the purpose of determining the amount of the registration fee. The registration fee is based upon the average of the high and low sales prices for a share of Common Stock on May 24, 2019, as reported on the NASDAQ Global Market.

#### INCORPORATION BY REFERENCE OF PRIOR REGISTRATION STATEMENT

This Registration Statement is filed by Harvard Bioscience, Inc. (the "Registrant") for the purpose of registering pursuant to General Instruction E to Form S-8, 350,000 additional shares of the Registrant's common stock, \$0.01 par value per share (the "Common Stock") under Amendment No. 4 to Harvard Bioscience, Inc. Employee Stock Purchase Plan (the "ESPP"). On April 5, 2019, the Registrant filed with the Securities and Exchange Commission (the "Commission") a definitive proxy statement that included proposals to, among other things, increase the number of shares available for issuance under the ESPP by 350,000 shares of Common Stock. The proposal to increase the number of shares available for issuance under the ESPP was approved by the Registrant's stockholders on May 16, 2019. This Registration Statement registers the 350,000 additional shares of Common Stock available for issuance under the ESPP.

The additional 350,000 shares of Common Stock available for issuance under the ESPP registered pursuant to this Registration Statement are the same class as those included on registration statements on Form S-8, and post-effective amendments thereto, filed on January 17, 2001 (File No. 333-53848), June 15, 2001 (File No. 333-53848), June 7, 2013 (File No. 333-189175) and June 5, 2017 (File No. 333-218497). The contents of all aforementioned Registration Statements, including any amendments thereto or filings incorporated therein, are incorporated herein by reference, except as modified herein.

### PART II

## INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

## Item 3. Incorporation of Documents by Reference.

The Registrant is subject to the informational and reporting requirements of Sections 13(a), 14 and 15(d) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and in accordance therewith files reports, proxy statements and other information with the Commission. The following documents, which are on file with the Commission, are incorporated in this registration statement by reference:

- (a) The Registrant's Annual Report on Form 10-K for the year ended December 31, 2018, filed with the Commission on March 18, 2019;
- (b) All other reports filed by the Registrant pursuant to Section 13(a) or 15(d) of the Exchange Act, since the end of the fiscal year covered by the Registrant's Annual Report on Form 10-K described in (a) above; and
- (c) The description of the Registrant's Common Stock contained in the Registrant's registration statement on Form 8-A (File No. 000-31923) filed with the Commission on November 9, 2000 under the Exchange Act, including any amendment or report filed for the purpose of updating such description.

All documents subsequently filed by the registrant pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act, prior to the filing of a post-effective amendment which indicates that all securities offered hereby have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference in this Registration Statement and to be part hereof from the date of the filing of such documents. Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for the purposes of this Registration Statement to the extent that a statement contained herein or in any other subsequently filed document which also is or is deemed to be incorporated by reference herein modifies or supersedes such statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

### Item 8. Exhibits

The Exhibit Index immediately preceding the exhibits is incorporated herein by reference.

### **SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, the Company certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Holliston, Massachusetts, on this 30<sup>th</sup> day of May, 2019.

HARVARD BIOSCIENCE, INC.

By:/s/ JEFFREY A. DUCHEMIN
Jeffrey A. Duchemin, *Chief Executive Officer* 

### POWER OF ATTORNEY

KNOW ALL BY THESE PRESENTS that each individual whose signature appears below constitutes and appoints each of Jeffrey A. Duchemin and Kamalam Unninayar as such person's true and lawful attorney-in-fact and agent with full power of substitution and resubstitution, for such person in such person's name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this registration statement (or any registration statement for the same offering that is to be effective upon filing pursuant to Rule 462(b) under the Securities Act of 1933), and to file the same, with all exhibits thereto, and all documents in connection therewith, with the Securities and Exchange Commission, granting unto each said attorney-infact and agent full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as such person might or could do in person, hereby ratifying and confirming all that any said attorney-in-fact and agent, or any substitute or substitutes of any of them, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the date indicated. Each person listed below has signed this registration statement as an officer or director of Harvard Bioscience, Inc.

Signature	Title	Date
/s/ JEFFREY A. DUCHEMIN Jeffrey A. Duchemin	Director and Chief Executive Officer (Principal Executive Officer)	May 30, 2019
/s/ KAMALAM UNNINAYAR Kamalam Unninayar	Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer)	May 30, 2019
/s/ JAMES GREEN	Director	May 30, 2019
James Green /s/ JOHN F. KENNEDY John F. Kennedy	Director	May 30, 2019
/s/ KATHERINE A. EADE Katherine A. Eade	Director	May 30, 2019
/s/ BERTRAND LOY Bertrand Loy	Director	May 30, 2019
/s/ THOMAS W. LOEWALD Thomas W. Loewald	Director	May 30, 2019

## **EXHIBIT INDEX**

Exhibit	
Number	Description
<u>(1)3.1</u>	Second Amended and Restated Certificate of Incorporation of Harvard Bioscience, Inc.
<u>(1)3.2</u>	Amended and Restated Bylaws of Harvard Bioscience, Inc.
<u>(2)3.3</u>	Amendment No. 1 to Amended and Restated Bylaws of Harvard Bioscience, Inc. (as adopted October 30, 2007)
<u>(1)4.1</u>	Specimen certificate for shares of Common Stock, \$0.01 par value, of Harvard Bioscience, Inc.
<u>(3)4.2</u>	Amended and Restated Securityholders' Agreement dated as of March 2, 1999 by and among Harvard Apparatus, Inc., Pioneer Partnership II, Pioneer Capital Corp., First New England Capital, L.P. and Citizens Capital, Inc. and Chane Graziano and David Green
<u>(4)4.3</u>	Harvard Bioscience, Inc. Employee Stock Purchase Plan, as amended
<u>*5.1</u>	Legal opinion from Burns & Levinson LLP
<u>*23.1</u>	Consent of Grant Thornton LLP, as independent registered public accounting firm
23.2	Consent of Burns & Levinson LLP (contained in the opinion filed as Exhibit 5.1 to this Registration Statement)
<u>24.1</u>	Power of attorney (included on the signature page to this Registration Statement)

- \* Filed herewith.
- (1) Previously filed as an exhibit to the Company's Registration Statement on Form S-1/A (File No. 333-45996) (filed on November 9, 2000) and incorporated by reference thereto.
- (2) Previously filed as an exhibit to the Company's Current Report on Form 8-K (filed on November 1, 2007) and incorporated by reference thereto.
- (3) Previously filed as an exhibit to the Company's Registration Statement on Form S-1/A (File No. 333-45996) (filed on October 25, 2000) and incorporated by reference thereto.
- (4) Previously filed as Appendix A to the Company's Definitive Schedule 14A (Proxy Statement) (filed on April 5, 2019) and incorporated by reference thereto.

May 30, 2019

Harvard Bioscience, Inc. 84 October Hill Road Holliston, MA 01746-1371

Re: Securities Being Registered under Registration Statement on Form S-8

### Ladies and Gentlemen:

This opinion letter is furnished to you in connection with your filing of a Registration Statement on Form S-8 (the "Registration Statement") pursuant to the Securities Act of 1933, as amended (the "Securities Act"), on or about the date hereof relating to an aggregate of 350,000 shares (the "Shares") of Common Stock, \$0.01 par value per share (the "Common Stock"), of Harvard Bioscience, Inc., a Delaware corporation (the "Company"), that may be issued pursuant to the Company's Employee Stock Purchase Plan, as amended (the "Plan").

We have reviewed such documents and made such examination of law as we have deemed appropriate to give the opinion expressed below. We have relied, without independent verification, as to matters of fact material to the opinion set forth below, on certificates of officers of the Company.

The opinion expressed below is limited to the Delaware General Corporation Law (which includes applicable provisions of the Delaware Constitution and reported judicial decisions interpreting the Delaware General Corporation Law and the Delaware Constitution).

For purposes of the opinion expressed below, we have assumed that a sufficient number of authorized but unissued shares of the Company's Common Stock will be available for issuance when the Shares are issued.

Based on the foregoing, we are of the opinion that (i) the Shares have been duly authorized and, upon issuance and delivery against payment therefor in accordance with the terms of the Plan, will be validly issued, fully paid and nonassessable.

We hereby consent to the inclusion of this opinion as Exhibit 5.1 to the Registration Statement. In giving our consent, we do not admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations thereunder.

Very truly yours,

**BURNS & LEVINSON LLP** 

/s/ BURNS & LEVINSON LLP

# **Consent of Independent Registered Public Accounting Firm**

We have issued our reports dated March 18, 2019, with respect to the consolidated financial statements and internal control over financial reporting of Harvard Bioscience, Inc. included in the Annual Report on Form 10-K for the year ended December 31, 2018, which are incorporated by reference in this Registration Statement. We consent to the incorporation by reference of the aforementioned reports in this Registration Statement.

/s/ GRANT THORNTON LLP

Boston, Massachusetts May 30, 2019