

HARVARD BIOSCIENCE INC  
Form SC 13G/A  
February 14, 2019

**UNITED STATES**

**SECURITIES AND EXCHANGE COMMISSION**

**Washington, D.C. 20549**

**SCHEDULE 13G/A**

**Under the Securities Exchange Act of 1934\***

**Harvard Bioscience, Inc.**  
(Name of Issuer)

**Common Stock, \$0.01 par value**  
(Title of Class of Securities)

**416906105**  
(CUSIP Number)

**December 31, 2018**  
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No . 416906105 Page 2 of 9

NAME OF REPORTING PERSONS  
First Light Focus Fund, LP

**1** I.R.S. IDENTIFICATION NO. OF  
ABOVE PERSONS  
(ENTITIES ONLY)

47-4771203

**2** CHECK THE APPROPRIATE BOX IF (a)  
A MEMBER OF A GROUP (b)

**3** SEC USE ONLY  
**4** CITIZENSHIP OR PLACE OF  
ORGANIZATION

Delaware

NUMBER OF SOLE VOTING POWER  
SHARES **5**  
0

BENEFICIALLY SHARED VOTING POWER  
OWNED BY **6**  
4,212,614

EACH SOLE DISPOSITIVE POWER  
REPORTING **7**  
0

PERSON SHARED DISPOSITIVE POWER  
WITH: **8**  
4,212,614

**9** AGGREGATE AMOUNT  
BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

4,212,614

**10** CHECK BOX IF THE AGGREGATE  
AMOUNT IN ROW 9 EXCLUDES  
CERTAIN SHARES  
**11** PERCENT OF CLASS REPRESENTED  
BY AMOUNT IN ROW 9

11.30%

**12** TYPE OF REPORTING PERSON

PN



CUSIP No . 416906105 Page 3 of 9

NAME OF REPORTING PERSONS  
First Light Focus Fund GP, LLC

**1** I.R.S. IDENTIFICATION NO. OF  
ABOVE PERSONS  
(ENTITIES ONLY)

35-2538554

**2** CHECK THE APPROPRIATE BOX IF (a)  
A MEMBER OF A GROUP (b)

**3** SEC USE ONLY  
**4** CITIZENSHIP OR PLACE OF  
ORGANIZATION

Delaware

NUMBER OF SOLE VOTING POWER  
SHARES **5**  
0

BENEFICIALLY SHARED VOTING POWER  
OWNED BY **6**  
4,212,614

EACH SOLE DISPOSITIVE POWER  
REPORTING **7**  
0

PERSON SHARED DISPOSITIVE POWER  
WITH: **8**  
4,212,614

**9** AGGREGATE AMOUNT  
BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

4,212,614

**10** CHECK BOX IF THE AGGREGATE  
AMOUNT IN ROW 9 EXCLUDES  
CERTAIN SHARES  
**11** PERCENT OF CLASS REPRESENTED  
BY AMOUNT IN ROW 9

11.30%

**12** TYPE OF REPORTING PERSON

HC



CUSIP No . 416906105 Page 4 of 9

NAME OF REPORTING PERSONS  
First Light Asset Management, LLC

**1** I.R.S. IDENTIFICATION NO. OF  
ABOVE PERSONS  
(ENTITIES ONLY)

46-3521994

**2** CHECK THE APPROPRIATE BOX IF (a)  
A MEMBER OF A GROUP (b)

**3** SEC USE ONLY  
**4** CITIZENSHIP OR PLACE OF  
ORGANIZATION

Delaware

NUMBER OF	SOLE VOTING POWER
SHARES	<b>5</b>
	0
BENEFICIALLY	SHARED VOTING POWER
OWNED BY	<b>6</b>
	7,009,586
EACH	SOLE DISPOSITIVE POWER
REPORTING	<b>7</b>
	0
PERSON	SHARED DISPOSITIVE POWER
WITH:	<b>8</b>
	7,009,586

**9** AGGREGATE AMOUNT  
BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

7,009,586

**10** CHECK BOX IF THE AGGREGATE  
AMOUNT IN ROW 9 EXCLUDES  
CERTAIN SHARES  
**11** PERCENT OF CLASS REPRESENTED  
BY AMOUNT IN ROW 9

18.80%

**12** TYPE OF REPORTING PERSON

IA

CUSIP No 416906105

Page 5  
of 9

NAME OF REPORTING  
PERSONS  
Mathew P. Arens

1

I.R.S. IDENTIFICATION NO.  
OF ABOVE PERSONS  
(ENTITIES ONLY)

(a)

2

CHECK THE APPROPRIATE  
BOX IF A MEMBER OF A  
GROUP

(b)

3

SEC USE ONLY  
CITIZENSHIP OR PLACE  
OF ORGANIZATION

4

United State of America  
SOLE  
VOTING  
5 POWER

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY

34,350  
SHARED  
VOTING  
6 POWER

EACH  
REPORTING

7,020,421  
SOLE  
DISPOSITIVE  
7 POWER

PERSON  
WITH:

34,350  
SHARED  
DISPOSITIVE  
8 POWER

9

7,020,421  
AGGREGATE AMOUNT  
BENEFICIALLY OWNED  
BY EACH REPORTING  
PERSON



7,054,771

**10**

CHECK BOX IF THE  
AGGREGATE AMOUNT IN  
ROW 9 EXCLUDES  
CERTAIN SHARES  
PERCENT OF CLASS  
REPRESENTED BY

**11**

AMOUNT IN ROW 9

18.92%

**12**

TYPE OF REPORTING  
PERSON

HC, IN

CUSIP No. 416906105 Page 6 of 9

**Item 1(a). Name of Issuer:**

Harvard Bioscience, Inc.

**Item 1(b). Address of Issuer's Principal Executive Offices:**

84 October Hill Road, Holliston, MA 01746

**Item 2(a). Name of Person Filing:**

This Schedule 13G/A is being jointly filed by the following:

First Light Focus Fund, LP (the "Fund")

First Light Focus Fund GP, LLC (the "General Partner")

First Light Asset Management, LLC (the "Manager")

Mathew P. Arens ("Mr. Arens")

The Manager may be deemed to be the beneficial owner of 7,009,586 of the Issuer's shares of common stock (the "Shares") by virtue of the fact that it acts as an investment adviser to certain persons holding separately managed accounts with the Manager, each of whom has the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, those shares. Mr. Arens may also be deemed to be the beneficial owner of these shares because he controls the Manager in his position as managing member and majority owner of the Manager. The Manager and Mr. Arens are filing this Schedule 13G/A with respect to these Shares pursuant to Rule 13d-1(b) under the Act.

The Fund is the direct holder of 4,212,614 of the Shares. The General Partner may be deemed to be a beneficial owner of these Shares because it is the sole general partner of the Fund. The Manager may be deemed to be a beneficial owner of these Shares because it acts as investment adviser to the Fund. Mr. Arens may also be deemed to be the beneficial owner of these Shares because he controls the Manager in his position as the managing member and majority owner of the Manager. Mr. Arens also directly holds 34,350 Shares in an individual capacity with sole control and 10,835 Shares held in a joint spousal account over which he shares control. The Fund, the General Partner, the Manager and Mr. Arens are filing this Schedule 13G/A with respect to these Shares pursuant to Rule 13d-1(c) under the Act.

Each of the Fund, the General Partner, the Manager and Mr. Arens may be deemed to be the beneficial owner of the total amount of Shares set forth across from its or his respective name in Item 4 below. The

filing of this Schedule 13G shall not be construed as an admission that the reporting persons or any of their affiliates are the beneficial owner of any securities covered by this Schedule 13G for any other purposes other than Section 13(d) of the Securities Exchange Act of 1934.

**Item 2(b). Address of Principal Business Office or, if None, Residence:**

Each of the reporting persons identified in Item 2(a) has its principal business office at:

3300 Edinborough Way, Suite 201, Edina, MN 55435

**Item 2(c). Citizenship:**

First Light Focus Fund, LP – Delaware limited partnership

First Light Focus Fund GP, LLC – Delaware limited liability company

First Light Asset Management, LLC – Delaware limited liability company

Mathew P. Arens – United States citizen

**Item 2(d). Title of Class of Securities:**

Common Stock, \$0.01 par value

**Item 2(e). CUSIP Number:**

416906105

**Item 3. If This Statement is Filed Pursuant to §§240.13d-1(b), or 240.13d-2(b) or (c), Check Whether the Person Filing is a:**

- (a) Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78o).
- (b) Bank as defined in Section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) Insurance company as defined in Section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d) Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
- (e) An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);

**CUSIP** 416906105 Page 7 of 9  
**No .**

- (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) A parent holding company or control person in accordance with §240.13d-1(b)(ii)(G);
- (h) A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act (15 U.S.C. 80a-3);
- (j) Group, in accordance with §240.13d-1(b)(1)(ii)(J).

**Item 4. Ownership.**

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned:  
First Light Focus Fund, LP –  
4,212,614

First Light Focus Fund GP, LLC  
– 4,212,614

First Light Asset Management,  
LLC – 7,009,586

Mathew P. Arens – 7,054,771

(b) Percent of class:

First Light Focus Fund, LP –  
11.30%

First Light Focus Fund GP, LLC  
– 11.30%

First Light Asset Management,  
LLC – 18.80%

Mathew P. Arens – 18.92%

(c) Number of shares as to which  
such person has:

(i) Sole power to vote or to  
direct the vote  
First Light Focus Fund,  
LP – 0

First Light Focus Fund  
GP, LLC – 0

First Light Asset  
Management, LLC – 0

Mathew P. Arens –  
34,350

(ii) Shared power to vote or  
to direct the vote  
First Light Focus Fund,  
LP – 4,212,614

First Light Focus Fund  
GP, LLC – 4,212,614

First Light Asset  
Management, LLC –  
7,009,586

Mathew P. Arens –  
7,020,421

- (iii) Sole power to dispose or  
to direct the disposition  
of  
First Light Focus Fund,  
LP – 0

First Light Focus Fund  
GP, LLC – 0

First Light Asset  
Management, LLC – 0

Mathew P. Arens –  
34,350

- (iv) Shared power to dispose  
or to direct the  
disposition of  
First Light Focus Fund,  
LP – 4,212,614

First Light Focus Fund  
GP, LLC – 4,212,614

First Light Asset  
Management, LLC –  
7,009,586

Mathew P. Arens –  
7,020,421

CUSIP No . 416906105 Page 8 of 9

**Item 5. Ownership of Five Percent or Less of a Class.**

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following

**Item 6. Ownership of More than Five Percent on Behalf of Another Person.**

Not applicable

**Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.**

Not applicable

**Item 8. Identification and Classification of Members of the Group.**

Not applicable

**Item 9. Notice of Dissolution of Group.**

Not applicable

**Item 10. Certification.**

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect, other than activities solely in connection with a nomination under § 240.14a-11.

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

**FIRST LIGHT FOCUS FUND, LP**

Date: February 14, 2019

By: /s/ Jin K. Lien

Name: Jin K. Lien

Title: Chief Compliance Officer

**FIRST LIGHT FOCUS FUND GP,  
LLC**

Date: February 14, 2019

By: /s/ Jin K. Lien

Name: Jin K. Lien  
Title: Chief Compliance Officer

**FIRST LIGHT ASSET  
MANAGEMENT, LLC**

Date: February 14, 2019

By: /s/ Jin K. Lien  
Name: Jin K. Lien  
Title: Chief Compliance Officer

Date: February 14, 2019

Signature: /s/ Mathew P. Arens  
Name: Mathew P. Arens



CUSIP No . 416906105 Page 9 of 9

**Exhibit A**

**JOINT FILING AGREEMENT**

The Undersigned agree that the statement on Schedule 13G/A with respect to the common stock of Harvard Bioscience, Inc., dated as of February 14, 2019, is, and any amendment thereto signed by each of the undersigned shall be, filed on behalf of each of them pursuant to and in accordance with the provisions of Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended.

**FIRST LIGHT FOCUS FUND, LP**

By: /s/ Jin K. Lien  
Name: Jin K. Lien  
Title: Chief Compliance Officer

**FIRST LIGHT FOCUS FUND GP,  
LLC**

By: /s/ Jin K. Lien  
Name: Jin K. Lien  
Title: Chief Compliance Officer

**FIRST LIGHT ASSET  
MANAGEMENT, LLC**

By: /s/ Jin K. Lien  
Name: Jin K. Lien  
Title: Chief Compliance Officer

Signature: /s/ Mathew P. Arens  
Name: Mathew P. Arens