UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934*

(Amendment No. 2)

Harvard Bioscience, Inc.

(Name of Issuer)

Common Stock, \$0.01 par value

(Title of Class of Securities)

416906105

(CUSIP Number)

November 6, 2017

(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).

Page	2	of	9
------	---	----	---

1	NAME OF REPORTING PERSONS First Light Focus Fund, LP I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) 47-4771203				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b) (c)				
3	SEC USE	E ONL	Ι		
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
-	BER OF ARES	5	SOLE VOTING POWER 0		
	FICIALLY NED BY	6	SHARED VOTING POWER 1,752,928		
REPC	ACH DRTING	7	SOLE DISPOSITIVE POWER 0		
	RSON ITH:	8	SHARED DISPOSITIVE POWER 1,752,928		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,752,928				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW 9 EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 5.02%				
12	TYPE OF REPORTING PERSON PN				

1	NAME OF REPORTING PERSONS First Light Focus Fund GP, LLC I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) 35-2538554				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □ (b) □				
3	SEC USE	E ONL	Y		
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware				
-	BER OF ARES	5	SOLE VOTING POWER 0		
	ICIALLY IED BY	6	SHARED VOTING POWER 1,752,928		
REPO	ACH ORTING	7	SOLE DISPOSITIVE POWER 0		
	RSON ITH:	8	SHARED DISPOSITIVE POWER 1,752,928		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,752,928				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW 9 EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 5.02%				
12	TYPE OF REPORTING PERSON HC				

1	NAME OF REPORTING PERSONS				
	First Light Asset Management, LLC				
		TNITT	FICATION NO. OF ABOVE PERSONS		
	(ENTITI				
	46-35219				
2			PPROPRIATE BOX IF A MEMBER OF A GROUP		
2	CHECK		IT KOI KIATE DOA IF A MEMDEK OF A GROOT	(a) □ (b) □	
	OF OLIOF	0.00	· ·	(0) 🗆	
3	SEC USE				
4	-	-	OR PLACE OF ORGANIZATION		
	Delawar	9			
NUM	BER OF	5	SOLE VOTING POWER		
	ARES	5	0		
BENEF	ICIALLY	6	SHARED VOTING POWER		
	IED BY	U	4,240,289		
	АСН	7	SOLE DISPOSITIVE POWER		
	ORTING	/	0		
	RSON	8	SHARED DISPOSITIVE POWER		
vv	ITH:	ð	4,240,289		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	4,240,289				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW 9 EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9				
	12.16%				
12	TVDE O	C D C T	OPTINC DEDSON		
	TYPE OF REPORTING PERSON IA				
	17.1				

1	NAME OF REPORTING PERSONS				
	Matthew P. Arens				
	I.R.S. ID	ENTI	FICATION NO. OF ABOVE PERSONS		
	(ENTITI	ES OI	NLY)		
2	CHECK	THE A	PPROPRIATE BOX IF A MEMBER OF A GROUP	(a) □ (b) □	
3	SEC USE	ONL	Y		
4	CITIZENSHIP OR PLACE OF ORGANIZATION United States of America				
-	BER OF ARES	5	SOLE VOTING POWER 0		
BENEF	FICIALLY NED BY	6	SHARED VOTING POWER 4,240,289		
REPC	ACH DRTING	7	SOLE DISPOSITIVE POWER 0		
	RSON ITH:	8	SHARED DISPOSITIVE POWER 4,240,289		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 4,240,289				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW 9 EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 12.16%				
12	TYPE OF REPORTING PERSON IN				

CUSIP No.	No. <u>416906105</u>		Page 6 of 9
Item 1(a).			e of Issuer: Ird Bioscience, Inc.
Item 1(b).			ess of Issuer's Principal Executive Offices: rtober Hill Road, Hollisten, MA 01746
Item 2(a).			e of Person Filing: Schedule 13G/A is being jointly filed by the following:
		First I First I	Light Focus Fund, LP (the "Fund") Light Focus Fund GP, LLC (the "General Partner") Light Asset Management, LLC (the "Manager") ew P. Arens ("Mr. Arens")
			chedule 13G/A amends the Schedule 13G jointly filed by the Manager and Mr. Arens on July 7, 2017, and adds the Fund and the ral Partner as reporting persons.
		an inv or the benef	Manager is deemed to be the beneficial owner of 2,487,361 of the Issuer's shares (the "Shares") by virtue of the fact that it acts as restment adviser to certain persons holding separately managed accounts with the Manager, each of whom has the right to receive power to direct the receipt of dividends from, or the proceeds from the sale of, those shares. Mr. Arens is also deemed to be the icial owner of these shares because he controls the Manager in his position as managing member and majority owner of the ger. The Manager and Mr. Arens are filing this Schedule 13G/A with respect to these Shares pursuant to Rule 13d-1(b) under the
		owne Share he co	Fund is the direct holder and the beneficial owner of 1,752,928 of the Shares. The General Partner is deemed to be a beneficial r of these Shares because it is the sole general partner of the Fund. The Manager is deemed to be a beneficial owner of these s because it acts as investment adviser to the Fund. Mr. Arens is also deemed to be the beneficial owner of these Shares because it his position as the managing member and majority owner of the Manager. The Fund, the General Partner, fanager and Mr. Arens are filing this Schedule 13G/A with respect to these Shares pursuant to Rule 13d-1(c) under the Act.
			of the Fund, the General Partner, the Manager and Mr. Arens is, or is deemed to be, the beneficial owner of the total amount of s set forth across from its or his respective name in Item 4 below.
Item 2(b).			ess of Principal Business Office or, if None, Residence: 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).		CUSI 41690	P Number: 06105
Item 3.	If Th	his Stat	ement 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. 780).
	(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)	X	An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);

- (f) \Box An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) \Box A parent holding company or control person in accordance with §240.13d-1(b)(ii)(G);
- (h) \Box 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) \Box 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 – 1,752,928 First Light Focus Fund GP, LLC – 1,752,928 First Light Asset Management, LLC – 4,240,289 Mathew P. Arens – 4,240,289
- (b) Percent of class: First Light Focus Fund, LP – 5.02% First Light Focus Fund GP, LLC – 5.02% First Light Asset Management, LLC – 12.16% Mathew P. Arens – 12.16%
- (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 – 0
 - (ii) Shared power to vote or to direct the vote First Light Focus Fund, LP – 1,752,928
 First Light Focus Fund GP, LLC – 1,752,928
 First Light Asset Management, LLC – 4,240,289
 Mathew P. Arens – 4,240,289
 - (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 – 0
 - (iv) Shared power to dispose or to direct the disposition of First Light Focus Fund, LP – 1,752,928
 First Light Focus Fund GP, LLC – 1,752,928
 First Light Asset Management, LLC – 4,240,289
 Mathew P. Arens – 4,240,289

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 than five percent of the class of securities, check the following \Box	e the beneficial owner of more
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 or Control Person. Not applicable	the Parent Holding Company
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:	November 6, 2017
By:	/s/ Jin K. Lien
Name:	Jin K. Lien
Title:	Chief Compliance Officer
FIRST I	JGHT FOCUS FUND GP, LLC
Date:	November 6, 2017
By:	/s/ Jin K. Lien
Name:	Jin K. Lien
Title:	Chief Compliance Officer
FIRST L Date:	JGHT ASSET MANAGEMENT, LLC November 6, 2017
By:	/s/ Jin K. Lien
Name:	Jin K. Lien
Title:	Chief Compliance Officer
Date:	November 6, 2017
Signatur	e:/s/ Matthew P. Arens
Name:	Matthew P. Arens

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 November 6, 2017, 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. LienName:Jin K. LienTitle:Chief Compliance Officer

FIRST LIGHT FOCUS FUND GP, LLC

By:/s/ Jin K. LienName:Jin K. LienTitle:Chief Compliance Officer

FIRST LIGHT ASSET MANAGEMENT, LLC

By: /s/ Jin K. Lien

Name:Jin K. LienTitle:Chief Compliance Officer

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