UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No. 2)¹

Kura Oncology, Inc. (Name of Issuer)

Common Stock, par value \$0.0001 per share (Title of Class of Securities)

50127T109

(CUSIP Number)

December 31, 2019

(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 information required on 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*).

¹ 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 disclosures provided in a prior cover page.

1	NAME OF REPOR	TING PERSON	
		yy Value Fund, L.P.	
2	CHECK THE APP	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)	
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
4		I LACE OF ORDANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		975,568	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SHARED DISPOSITIVE FOWER	
		975.568	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	975,568		
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	2.2%		
12	TYPE OF REPORT	TING DERSON	
12			
	PN		

1			
1	NAME OF REPO	RTING PERSON	
	BVF I GP I	IC	
2		CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠	
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
-			
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH	Č		
REPORTING		975,568	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	_		
		975,568	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	975,568		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
			_
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
	2.2%		
12	TYPE OF REPOR	RTING PERSON	
	00		

	L		
1	NAME OF REPORT	TING PERSON	
		Value Fund II, L.P.	
2			(a) ⊠
			(b) 🗆
3	SEC USE ONLY		
3	SEC USE ONLY		
4	CITIZENSHIP OR H	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		017 402	
PERSON WITH	7	817,403 SOLE DISPOSITIVE POWER	
PERSON WITH	/	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	_		
		817,403	
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	817,403		
10	CHECK BOX IF TH	IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
11	FERCENT OF CLA	55 REFRESENTED DI AMOUNT IN KOW (3)	
	1.8%		
12	TYPE OF REPORT	ING PERSON	
	PN		
	,		

r			
1	NAME OF REPORT	ING PERSON	
	BVF II GP LL		
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSUID OD D	LACE OF ORGANIZATION	
4	CITIZENSIIIF OK F	LACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		817,403	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	Ū		
		817,403	
9	AGGREGATE AMC	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	817,403		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11			
11	PERCENT OF CLA	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	1.8%		
12	TYPE OF REPORTI	NG PERSON	
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	00		
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	h		
1	NAME OF REPOR	TING PERSON	
		y Value Trading Fund OS LP	
2	CHECK THE APPE	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) 🖂	
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Cayman Islan		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		140,716	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
	0	0 shares	
	8	SHARED DISPOSITIVE POWER	
		140,716	
9		OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9	AGGREGALE AM	JUNI DENEFICIALLI OWNED DI EACH REPORTING PERSON	
	140,716		
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10	CHECK DOX IF H	TE AGGREGATE AMOUNT IN ROW (5) EXCLODES CERTAIN STIARES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
**			
	Less than 1%		
12	TYPE OF REPORT		
	PN		
	ļ		

·			
1	NAME OF REPORT	ING PERSON	
	BVF Partners		
2	CHECK THE APPR	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) 🖂	
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
-			
	Cayman Island	ls	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH		140.710	
REPORTING PERSON WITH	7	140,716 SOLE DISPOSITIVE POWER	
PERSON WITH	/	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	_		
		140,716	
9	AGGREGATE AMC	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	140,716		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
11	I LICENT OF CLA	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1%		
12	TYPE OF REPORTI	NG PERSON	
	CO		

	1		
1	NAME OF REPOR	TING PERSON	
		LDINGS LLC	
2	CHECK THE APPI	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHID OR	PLACE OF ORGANIZATION	
4		I LACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		1,792,971	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	0 shares SHARED DISPOSITIVE POWER	
	0	SHARED DISPOSITIVE POWER	
		1,792,971	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
_			
	1,792,971		
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
	4.00/		
12	4.0% TYPE OF REPORT	INC DEDSON	
12	I TPE OF KEPORI	IING PERSOIN	
	00		
<u> </u>	00		

1	NAME OF REPO	RTING PERSON	
	DVE Doutro	we T. D.	
2		BVF Partners L.P. (a) ☑ CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ☑	
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
			(0) 🗆
3	SEC USE ONLY		
5	SEC OSE ONEI		
4	CITIZENSHIP OI	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 shares	
EACH	6	SHARED VOTING POWER	
REPORTING		1,998,276	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
	,		
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		1,998,276	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,998,276		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10	CHECK BOX II	THE AGGREGATE AMOUNT IN ROW (5) EXCLODES CERTAIN SHARES	
11	PERCENT OF CL	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	4.4%		
12	TYPE OF REPOR	TING PERSON	
	PN, IA		

	1		
1	NAME OF REPORT	TING PERSON	
	BVF Inc.		
2	CHECK THE APPR	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) 🖾	
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR F	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES		0 shares	
BENEFICIALLY OWNED BY	6	0 shares	
	6	SHARED VOTING POWER	
EACH REPORTING		1,998,276	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
	/	SOLE DISPOSITIVE FOWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0		
		1,998,276	
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,998,276		
10	CHECK BOX IF TH	IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	4.4%		
12	TYPE OF REPORT	ING PERSON	
	CO		

1	NAME OF REPORT	ING PERSON	
	Mark N. Lamp		
2	CHECK THE APPRO	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) 🗵	
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	United States	1	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		1,998,276	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		1 000 050	
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1 000 270		
10	1,998,276		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
11	PERCENT OF CLAS	55 KERKESENTED BY AMOUNT IN KOW (9)	
	4.4%		
12	TYPE OF REPORTIN	NC DERSON	
12	I I FE OF KEPOKII	NO FERSON	
	IN		
<u></u>	111		

CUSIP No. 50	012/1109
Item 1(a).	Name of Issuer:
	Kura Oncology, Inc., a Delaware corporation (the "Issuer").
Item 1(b).	Address of Issuer's Principal Executive Offices:
	3033 Science Park Road, Suite 220 San Diego, California 92121
Item 2(a). Item 2(b). Item 2(c).	Name of Person Filing Address of Principal Business Office or, if None, Residence Citizenship
	Biotechnology Value Fund, L.P. ("BVF") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware
	BVF I GP LLC ("BVF GP") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware
	Biotechnology Value Fund II, L.P. ("BVF2") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware
	BVF II GP LLC ("BVF2 GP") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware
	Biotechnology Value Trading Fund OS LP ("Trading Fund OS") PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands
	BVF Partners OS Ltd. ("Partners OS") PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands
	Citizenship: Cayman Islands BVF GP Holdings LLC ("BVF GPH") 44 Montgomery St., 40th Floor
	San Francisco, California 94104 Citizenship: Delaware
	BVF Partners L.P. ("Partners") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware
	12

CUSIP No.	50127T109
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	San Franci	omery St., 40 sco, Califor o: Delaware			
	44 Montgo San Franci	ampert ("Mo omery St., 40 sco, Califor o: United Sta	nia 94104		
	Each of the	e foregoing i	is referred to as a "Reporting Person" and collectively as the "Reporting Persons."		
Item 2(d).	Title of Cla	ass of Securi	ities:		
	Common S	Stock, par va	lue \$0.0001 per share (the "Shares")		
Item 2(e).	CUSIP Number:				
	50127T109	9			
Item 3.	If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:				
		/x/	Not applicable.		
	(a)	//	Broker or dealer registered under Section 15 of the Exchange Act.		
	(b)	//	Bank as defined in Section 3(a)(6) of the Exchange Act.		
	(c)	//	Insurance company as defined in Section 3(a)(19) of the Exchange Act.		
	(d)	//	Investment company registered under Section 8 of the Investment Company Act.		
	(e)	//	An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).		
	(f)	//	An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).		
	(g)	//	A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).		
	(h)	//	A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.		
	(i)	//	A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act.		
	(j)	//	Group, in accordance with Rule 13d-1(b)(1)(ii)(J).		
	(k)	//	Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J), please specify the type of institution:		

Item 4.

(a) Amount beneficially owned:

Ownership.

As of the close of business on December 31, 2019, (i) BVF beneficially owned 975,568 Shares, (ii) BVF2 beneficially owned 817,403 Shares, and (iii) Trading Fund OS beneficially owned 140,716 Shares.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 975,568 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 817,403 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 140,716 Shares beneficially owned by Trading Fund OS.

BVF GPH, as the sole member of each of BVF GP and BVF2 GP, may be deemed to beneficially own the 1,792,971 Shares beneficially owned in the aggregate by BVF and BVF2.

Partners, as the investment manager of BVF, BVF2 and Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 1,998,276 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and a certain Partners managed account (the "Partners Managed Account"), including 64,589 Shares held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 1,998,276 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 1,998,276 Shares beneficially owned by BVF Inc.

The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of any Shares owned by another Reporting Person. BVF GP disclaims beneficial ownership of the Shares beneficially owned by BVF. BVF2 GP disclaims beneficial ownership of the Shares beneficially owned by Trading Fund OS. BVF GPH disclaims beneficial ownership of the Shares beneficially owned by BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares beneficially owned by BVF2. Trading Fund OS, and the Partners Managed Account, and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b) Percent of class:

The following percentages are based on 45,314,684 Shares outstanding as of November 1, 2019, as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 5, 2019.

As of the close of business on December 31, 2019, (i) BVF beneficially owned approximately 2.2% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 1.8% of the outstanding Shares, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding Shares, (iv) BVF GP may be deemed to beneficially own approximately 2.2% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 2.2% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 2.2% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 2.2% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 2.0% of the outstanding Shares, (vi) BVF GPH may be deemed to beneficially own approximately 4.0% of the outstanding Shares, and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 4.4% of the outstanding Shares (less than 1% of the outstanding Shares are held in the Partners Managed Account).

	(c)	Number of shares as to which such person has:				
	(i)	Sole power to vote or to direct the vote				
		See Cover Pages Items 5-9.				
	(ii)	Shared power to vote or to direct the vote				
		See Cover Pages Items 5-9.				
(iii)		Sole power to dispose or to direct the disposition of				
		See Cover Pages Items 5-9.				
(iv)		Shared power to dispose or to direct the disposition of				
		See Cover Pages Items 5-9.				
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 [X].				
Item 6.		Ownership of More than Five Percent on Behalf of Another Person.				
		Not Applicable.				
Item 7.		Identification and Classification of the Subsidiary That 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.				
		See Exhibit 99.1.				
Item 9.		Notice of Dissolution of Group.				
		Not Applicable.				
Item 10.		Certifications.				
acquired	and are	By signing below each of the undersigned certifies that, to the best of its knowledge and belief, the securities referred to above were not				

By signing below each of the undersigned certifies that, to the best of its 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.

SIGNATURE

After reasonable inquiry and to the best of his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: February 14, 2020

BIOTECHNOLOGY VALUE FUND, L.P.

- By: BVF I GP LLC., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF I GP LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BIOTECHNOLOGY VALUE FUND II, L.P.

- By: BVF II GP LLC its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF II GP LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF PARTNERS OS LTD.

- By: BVF Partners L.P., its sole member
- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert President

BIOTECHNOLOGY VALUE TRADING FUND OS LP

- By: BVF Partners L.P., its investment manager
- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark Lampert President

BVF GP HOLDINGS LLC

By: /s/ Mark N. Lampert

Mark Lampert Chief Executive Officer

BVF PARTNERS L.P.

- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert President

BVF INC.

By: /s/ Mark N. Lampert Mark Lampert President

/s/ Mark N. Lampert MARK N. LAMPERT

<u>Joint Filing Agreement</u>

The undersigned hereby agree that the Statement on Schedule 13G dated February 14, 2020 with respect to the shares of Common Stock of Kura Oncology, Inc., and any further amendments thereto executed by each and any of the undersigned shall be filed on behalf of each of the undersigned pursuant to and in accordance with the provisions of Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended.

Dated: February 14, 2020

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF I GP LLC., its general partner

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF I GP LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BIOTECHNOLOGY VALUE FUND II, L.P.

- By: BVF II GP LLC its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

BVF II GP LLC

By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer

- BVF PARTNERS OS LTD.
- By: BVF Partners L.P., its sole member By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert President

BIOTECHNOLOGY VALUE TRADING FUND OS LP

- By: BVF Partners L.P., its investment manager
- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert

Mark Lampert President

BVF GP HOLDINGS LLC

By: /s/ Mark N. Lampert Mark Lampert Chief Executive Officer

BVF PARTNERS L.P.

- By: BVF Inc., its general partner
- By: /s/ Mark N. Lampert Mark N. Lampert President

BVF INC.

By: /s/ Mark N. Lampert

Mark Lampert President

/s/ Mark N. Lampert

MARK N. LAMPERT