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. 9)¹

Xenon Pharmaceuticals Inc.
(Name of Issuer)
Common Shares, no par value per share
(Title of Class of Securities)
98420N105
(CUSIP Number)
June 16, 2020
(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 disclosures provided in prior cover page.
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, <i>see</i> the <i>Notes</i>).

1	NAME OF REPO	RTING PERSON	
	Biotechnolo	gy Value Fund, L.P.	
2			
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		1,871,995 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		1,871,995 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,871,995 (1		
10		ΓHE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
-		(-)	
11	PERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	5.4% (1)		
12	TYPE OF REPOR	TING PERSON	
± -			
	PN		

(1) Excludes 488,000 shares of Common Stock underlying certain shares of Series 1 Preferred (defined in Item 4) currently not convertible due to the Beneficial Ownership Limitation (defined in Item 4).

1	NAME OF REPO	RTING PERSON	
	BVF I GP L		
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	- 1		
1777 (777 67	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		1 071 005 (1)	
PERSON WITH	7	1,871,995 (1) SOLE DISPOSITIVE POWER	
PERSON WITH	/	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SHAKED DISFOSITIVE FOWER	
		1,871,995 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
3	TIGGILL OTHE THE	NOON BENEFICIALE ON NEB BY ENGINEE ON INCOME	
	1,871,995 (1)	
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
		· /	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
		• • • • • • • • • • • • • • • • • • • •	
	5.4% (1)		
12	TYPE OF REPOR	TING PERSON	
	00		

(1) Excludes 488,000 shares of Common Stock underlying certain shares of Series 1 Preferred currently not convertible due to the Beneficial Ownership Limitation.

1	NAME OF REPORT	TING PERSON	
1			
	Biotechnology	Value Fund II, L.P.	
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
	CECTICE ONLY		
3	SEC USE ONLY		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
SHAKES BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		1,367,750 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		1,367,750 (1)	
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1 267 750 (1)		
10	1,367,750 (1)	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10		in red and a red	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	2.007 (1)		
12	3.9% (1) TYPE OF REPORT	INC DEDSON	
14	TITE OF REPORT	INO I EROOM	
	PN		

(1) Excludes 383,000 shares of Common Stock underlying certain shares of Series 1 Preferred currently not convertible due to the Beneficial Ownership Limitation.

1	NAME OF REPO	RTING PERSON	
	BVF II GP I		
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENCIUD OI	R PLACE OF ORGANIZATION	
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		1,367,750 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		O do co	
	8	0 shares SHARED DISPOSITIVE POWER	
	8	SHARED DISPOSITIVE POWER	
		1,367,750 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	1,367,750 (1		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	3.9% (1)		
12	TYPE OF REPOR	TING PERSON	
12	I I I I OI KEI OI	IIIIO I BROOM	
	00		

(1) Excludes 383,000 shares of Common Stock underlying certain shares of Series 1 Preferred currently not convertible due to the Beneficial Ownership Limitation.

1	NAME OF REPORT	ING PERSON	
		Value Trading Fund OS LP	
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
3	SEC USE ONLI		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
NUMBER OF	Cayman Island 5	SOLE VOTING POWER	
SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		229,900 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		229,900 (1)	
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	229,900 (1)		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
	,		
10	Less than 1% (
12	TYPE OF REPORTI	NG PERSUN	
	PN		

(1) Excludes 80,000 shares of Common Stock underlying certain shares of Series 1 Preferred currently not convertible due to the Beneficial Ownership Limitation.

1	NAME OF REPO	ORTING PERSON	
	BVF Partne	ors OS I td	
2			() [7]
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
	Cayman Isl	ands	
NUMBER OF	5	SOLE VOTING POWER	
SHARES		SOLL VOINGTOWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH	0	SHARED VOTING POWER	
_		220 000 (4)	
REPORTING		229,900 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		229,900 (1)	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	229,900 (1)		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)	
11	LEIGENI OI CI	Elios refriedentes si remoditi in non (5)	
	Less than 1	% (1)	
12	TYPE OF REPOR		
14	I I PE OF KEPOI	MINO FERSON	
	60		
	CO		

(1) Excludes 80,000 shares of Common Stock underlying certain shares of Series 1 Preferred currently not convertible due to the Beneficial Ownership Limitation.

1	NAME OF DEDOD	FINC DEDCON	
1	NAME OF REPORTING PERSON		
	DIVE OR HOL	DINICCLLC	
	BVF GP HOL		() E
2	CHECK THE APPR	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION	
	D 1		
NUMBER OF	Delaware	COLE MOTING POLITIP	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH		2 220 745 (4)	
REPORTING	-	3,239,745 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	δ	SHARED DISPOSITIVE POWER	
		2 220 745 (1)	
9	ACCDECATE AMO	3,239,745 (1) OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9	AGGREGATE AIM	JUNI BENEFICIALLI OWNED BI EACH REPORTING PERSON	
	3,239,745 (1)		
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10	CHECK BOX II' II	IE AGGREGATE AMOONT IN NOW (5) EXCEODES CERTAIN STIARES	
11	DEBCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
11	I LICENT OF CLA	SO KEI KESENTED DI AMOONII IN KOW (J)	
	9.3% (1)		
12	TYPE OF REPORT	ING PERSON	
14	I I I L OI KLI OKI	III O I EROOM	
	00		

(1) Excludes 871,000 shares of Common Stock underlying certain shares of Series 1 Preferred currently not convertible due to the Beneficial Ownership Limitation.

	NAME OF BERORS	TING BEDGON	
1	NAME OF REPORT	ING PERSON	
	BVF Partners		
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR F	PLACE OF ORGANIZATION	
•	CITIZZINOIMI CIVI	ENGL OF OROTHVEINION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES	J	SOLE VOTING FOWER	
BENEFICIALLY		0 shares	
OWNED BY	C	SHARED VOTING POWER	
= ''	6	SHARED VOTING POWER	
EACH		2 - 42 2-4 (4)	
REPORTING		3,516,851 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		3,516,851 (1)	
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,516,851 (1)		
10		IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	1 LIGHT OF GERT	55 121 12521122 B1 121100111 11 110 11 (0)	
	10.1% (1)		
12	TYPE OF REPORTI	INC DERSON	
14	TITE OF REPORTS	INO I EROON	
	DNI IA		
	PN, IA		

(1) Excludes 1,016,000 shares of Common Stock underlying certain shares of Series 1 Preferred currently not convertible due to the Beneficial Ownership Limitation.

1	NAME OF REPORT	ING PERSON	
-			
	BVF Inc.		
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
		2.102 01 01.011.12.11.01.	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER	
EACH	б	SHARED VOTING POWER	
REPORTING		3,516,851 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		2 516 051 (1)	
9	ACCRECATE AMO	3,516,851 (1) UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
3	71GGREG/ITE 71IVIO	ON DENERGINEER OWNED DE ENGIERE ONTINGTEROON	
	3,516,851 (1)		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DED CENTE OF CLAS	CO DEDDECEMEED DV AMOUNT IN DOM (0)	
11	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (9)	
	10.1% (1)		
12	TYPE OF REPORTI	NG PERSON	
	CO		

(1) Excludes 1,016,000 shares of Common Stock underlying certain shares of Series 1 Preferred currently not convertible due to the Beneficial Ownership Limitation.

1	NAME OF REPORT	ING PERSON	
	Mark N. Lamp		
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) 🗆
3	SEC USE ONLY		
	CIEIGENGIAN OF P	A ACT OF ORGANIZATION	
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	United States		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER	
EACH	0	SHARED VOTING POWER	
REPORTING		3,516,851 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	O	SIMILED DISTOSTITVE TOWER	
		3,516,851 (1)	
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	3,516,851 (1)		
10		E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
		.,	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
	10.1% (1)		
12	TYPE OF REPORTI	NG PERSON	
	IN		

(1) Excludes 1,016,000 shares of Common Stock underlying certain shares of Series 1 Preferred currently not convertible due to the Beneficial Ownership Limitation.

Item 1(a). Name of Issuer:

Xenon Pharmaceuticals Inc., incorporated in 1996 under the British Columbia Business Corporations Act and continued federally in 2000 under the Canada Business Corporation Act (the "Issuer").

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

200-3650 Gilmore Way Burnaby, British Columbia Canada V5G 4W8

Item 2(a). Name of Person Filing

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

Item 2(c). 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

BVF Inc. 44 Montgomery St., 40th Floor San Francisco, California 94104

Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: United States

Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

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

Common Shares, no par value per share (the "Common Stock")

Item 2(e). CUSIP Number:

98420N105

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:

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. Ownership

(a) Amount beneficially owned:

The Reporting Persons hold 1,016,000 shares of Series 1 Preferred Shares, (the "Series 1 Preferred") convertible for an aggregate of 1,016,000 shares of Common Stock. Each share of Series 1 Preferred is convertible into one share of Common Stock. The Series 1 Preferred may not be converted if, after such conversion, the Reporting Persons would beneficially own, as determined in accordance with Section 13(d) of the Securities Exchange Act of 1934, in excess of 9.99% of the number of shares of Common Stock then issued and outstanding (the "Beneficial Ownership Limitation"). As of the close of business on June 22, 2020, the Beneficial Ownership Limitation limits the aggregate conversion of Series 1 Preferred by the Reporting Persons to zero out of the 1,016,000 shares of Common Stock underlying the Series 1 Preferred owned by the Reporting Persons in the aggregate.

As of the close of business on June 22, 2020, (i) BVF beneficially owned 1,871,995 shares of Common Stock, excluding 488,000 shares of Common Stock issuable upon the conversion of Series 1 Preferred, (ii) BVF2 beneficially owned 1,367,750 shares of Common Stock, excluding 383,000 shares of Common Stock issuable upon the conversion of Series 1 Preferred, and (iii) Trading Fund OS beneficially owned 229,900 shares of Common Stock, excluding 80,000 shares of Common Stock issuable upon the conversion of Series 1 Preferred.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 1,871,995 shares of Common Stock beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 1,367,750 shares of Common Stock beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 229,900 shares of Common Stock 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 3,239,745 shares of Common Stock 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 3,516,851 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and a certain Partners managed account (the "Partners Managed Account"), including 47,206 shares of Common Stock held in the Partners Managed Account and excluding 65,000 shares of Common Stock issuable upon the conversion of Series 1 Preferred.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 3,516,851 shares of Common Stock beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 3,516,851 shares of Common Stock 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 of Common Stock owned by another Reporting Person. BVF GP disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF. BVF2 GP disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF2. Partners OS disclaims beneficial ownership of the shares of Common Stock beneficially owned by Trading Fund OS. BVF GPH disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF and BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, 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 34,974,119 shares of Common Stock outstanding as of May 18, 2020, as disclosed in the Issuer's Amended Quarterly Report on Form 10-Q/A filed with the Securities and Exchange Commission on May 26, 2020.

As of the close of business on June 22, 2020, (i) BVF beneficially owned approximately 5.4% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 3.9% of the outstanding shares of Common Stock, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding shares of Common Stock, (iv) BVF GP may be deemed to beneficially own approximately 5.4% of the outstanding shares of Common Stock, (vi) BVF2 GP may be deemed to beneficially own approximately 3.9% of the outstanding shares of Common Stock, (vii) BVF GPH may be deemed to beneficially own approximately 9.3% of the outstanding shares of Common Stock and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 10.1% of the outstanding shares of Common Stock (less than 1% of the outstanding shares of Common Stock 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.

Not Applicable.

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

BVF GP, BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the shares of Common Stock beneficially owned by BVF. BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the shares of Common Stock beneficially owned by BVF2. Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the shares of Common Stock beneficially owned by Trading Fund OS and the Partners Managed Accounts.

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 to Amendment No. 8 to the Schedule 13G filed with the Securities and Exchange Commission on February 14, 2020.

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certifications.

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: June 22, 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

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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

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