#### 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. 11)<sup>1</sup>

Xenon Pharmaceuticals Inc.
(Name of Issuer)
Common Shares, no par value per share
(Title of Class of Securities)
98420N105
(CUSIP Number)
December 31, 2021
(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> ).

NAME OF REPO	RTING PERSON	
CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
		(b) □
SEC USE ONLY		
CITIZENSHIP OF	R PLACE OF ORGANIZATION	
Delaware		
5	SOLE VOTING POWER	
	*	
6	SHARED VOTING POWER	
7	SOLE DISPOSITIVE POWER	
8	SHARED DISPOSITIVE POWER	
	2.010.504.(1)	
ACCDECATE AN		
AGGKEGALE AL	MOUNT DENEFICIALLY OWNED BY EACH REPORTING PERSON	
2 910 504 (1		
		П
CHECK BOX IF	THE AGGREGATE AMOUNT IN NOW (3) EACLODES CERTAIN SHAKES	
DERCENT OF CI	ASS REPRESENTED BY AMOUNT IN BOW (9)	
I LICEIVI OF CL	MOO TEL RESERVED DI MINOCIVI IN NOVI (3)	
5.5% (1)		
` '	TING PERSON	
PN		
	Biotechnolo CHECK THE API  SEC USE ONLY  CITIZENSHIP OF THE API  Delaware  5  6  7  8  AGGREGATE AN  2,819,594 (1) CHECK BOX IF THE API  PERCENT OF CITIZENSHIP OF THE API  5,5% (1) TYPE OF REPORT	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware  5

<sup>(1)</sup> Includes 37,255 shares of Common Stock (defined in Item 2(d)) underlying certain shares of Series 1 Preferred (defined in Item 4) but excludes 450,745 shares of Common Stock underlying certain shares of Series 1 Preferred currently not convertible due to the Beneficial Ownership Limitation (defined in Item 4).

	1		
1	NAME OF REPO	PRTING PERSON	
	BVF I GP L		
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 OI	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES	3	SOLL VOINGTOWER	
BENEFICIALLY		- 0 -	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		2,819,594 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		- 0 -	
	8	SHARED DISPOSITIVE POWER	
		2.010.504.(1)	
9	ACCDECATE AN	2,819,594 (1) MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9	AGGREGATE AT	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,819,594 (2	1)	
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
		(,)	
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	5.5% (1)		
12	TYPE OF REPOR	RTING PERSON	
	00		

(1) Includes 37,255 shares of Common Stock underlying certain shares of Series 1 Preferred, but excludes 450,745 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	
	Biotechnology	Value Fund II, L.P.	
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	Delaware 5	SOLE VOTING POWER	
SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		- 0 -	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		2,018,920 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		- 0 -	
	8	SHARED DISPOSITIVE POWER	
		2,018,920 (1)	
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10	2,018,920 (1)	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10	CHECK BOX IF IT	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	Ш
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
	2.00/ (1)		
12	3.9% (1) TYPE OF REPORTI	NC DEDSON	
12	I I PE OF KEPOKIII	NG FERSON	
	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 REPOR	RTING PERSON	
	BVF II GP L	LC	
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
			` ,
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		- 0 -	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		2,018,920 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		- 0 -	
	8	SHARED DISPOSITIVE POWER	
		2,018,920 (1)	
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2 040 020 (4)		
10	2,018,920 (1)		
10	CHECK BOX IF I	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
- 11	DED CENTE OF CL	ACC DEDDECEMBED DV AMOUNT IN DOLL (0)	
11	PERCENT OF CL.	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	2.00/ (1)		
12	3.9% (1) TYPE OF REPORT	TINC DEDSON	
12	1 1 PE OF REPOR	HING LEVOCIA	
	00		
	1 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	TING PERSON	
	Riotochnology	Value Trading Fund OS LP	
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
2	CHECK THE ALL	OF MATE BOX IF A MEMBER OF A GROOT	(a) ⊠ (b) □
			(-)
3	SEC USE ONLY		
4	CITIZENSUID OD I	PLACE OF ORGANIZATION	
4	CITIZENSHIP OK	PLACE OF ORGANIZATION	
	Cayman Island	ds	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	- 0 - SHARED VOTING POWER	
EACH	b	SHARED VOTING POWER	
REPORTING		302,987 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		- 0 -	
	8	SHARED DISPOSITIVE POWER	
		302,987 (1)	
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10	302,987 (1)	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10	CHECK BOX IF IF	TE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	T 1 40/	(4)	
12	Less than 1% TYPE OF REPORT		
12	I I PE OF REPORT	ING PERSON	
	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 REPORT	TING PERSON	
1		THO LENGTY	
	BVF Partners	OS Ltd.	
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	
	Cayman Island		
NUMBER OF	5	SOLE VOTING POWER	
SHARES BENEFICIALLY		-0-	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		302,987 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		-0-	
	8	SHARED DISPOSITIVE POWER	
		302,987 (1)	
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	202 007 (1)		
10	302,987 (1)	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10	CILECIC BOX II II	in reduced the responsibility from (5) exchange determine of the contract of t	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	I (b. 40/	(1)	
12	Less than 1% TYPE OF REPORT		
12	I I PE OF KEPORI	ING PERSON	
	СО		

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

	<del> </del>		
1	NAME OF REPO	RTING PERSON	
	BVF GP Ho		
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OF	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		- 0 -	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		4,838,514 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		- 0 -	
	8	SHARED DISPOSITIVE POWER	
		4,838,514 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4,838,514 (1	)	
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	9.4% (1)		
12	TYPE OF REPOR	TING PERSON	
	00		

(1) Includes 37,255 shares of Common Stock underlying certain shares of Series 1 Preferred but excludes 833,745 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 Partner	rs L.P.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) ⊠		(a) 🗵
			(b) □
			• •
3	SEC USE ONLY		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		- 0 -	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		5,157,486 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		- 0 -	
	8	SHARED DISPOSITIVE POWER	
		E 155 100 (1)	
	A CODEC ATE A A	5,157,486 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	E 1E7 40C (1	)	
10	5,157,486 (1	FITE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
10		THE AGGREGATE AMOUNT IN KOW (9) EXCLUDES CERTAIN SHARES	
11	DEDCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	PERCENT OF CL	ASS REFRESENTED BY AMOUNT IN KOW (3)	
	9.99% (1)		
12	TYPE OF REPOR	TINC DEDSON	
14	I I PE OF KEPOR	THING FERSON	
	PN, IA		
	F1N, 1/A		

(1) Includes 37,255 shares of Common Stock underlying certain shares of Series 1 Preferred but excludes 978,745 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		OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES BENEFICIALLY		- 0 -	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		5,157,486 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		- 0 -	
	8	SHARED DISPOSITIVE POWER	
		5,157,486 (1)	
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	5,157,486 (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)	
	9.99% (1)		
12	TYPE OF REPORTI	NG PERSON	
	CO		

(1) Includes 37,255 shares of Common Stock underlying certain shares of Series 1 Preferred but excludes 978,745 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	
	Mark N. Lar		
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	
	United State		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		- 0 -	
OWNED BY	6	SHARED VOTING POWER	
EACH		E 157 40C (1)	
REPORTING PERSON WITH		5,157,486 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		- 0 -	
	8	SHARED DISPOSITIVE POWER	
	O	SHARED DISPOSITIVE POWER	
		5,157,486 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	113GILGIIIL III	MOON DENERICEMENT OWNED DI ENGINEE ONTENOTEROON	
	5,157,486 (1	.)	
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
		• •	
	9.99% (1)		
12	TYPE OF REPOR	TING PERSON	
	IN		

(1) Includes 37,255 shares of Common Stock underlying certain shares of Series 1 Preferred but excludes 978,745 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. (the "Issuer").

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

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

Callada V5G 4W6

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:

	/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 December 31, 2021, the Beneficial Ownership Limitation limits the aggregate conversion of Series 1 Preferred by the Reporting Persons to 37,255 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 December 31, 2021, (i) BVF beneficially owned 2,819,594 shares of Common Stock, including 37,255 shares of Common Stock underlying certain shares of Series 1 Preferred, and excluding 450,745 shares of Common Stock issuable upon the conversion of Series 1 Preferred, (ii) BVF2 beneficially owned 2,018,920 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 302,987 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 2,819,594 shares of Common Stock beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 2,018,920 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 302,987 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 4,838,514 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 5,157,486 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2 and Trading Fund OS and held in a certain Partners managed account (the "Partners Managed Account"), including 15,985 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 held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 5,157,486 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 5,157,486 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 BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2 and Trading Fund OS and held in 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 a denominator that is the sum of (i) 51,589,279 shares of Common Stock outstanding as of November 8, 2021 as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 10, 2021, and (ii) 37,255 Shares underlying certain Series 1 Preferred, as applicable.

As of the close of business on December 31, 2021, (i) BVF beneficially owned approximately 5.5% 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 5.5% of the outstanding shares of Common Stock, (v) 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 9.4% of the outstanding shares of Common Stock and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 9.99% 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 held in the Partners Managed Account.

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: February 14, 2022

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 N. Lampert

President

**BVF GP HOLDINGS LLC** 

By: /s/ Mark N. Lampert

Mark N. 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 N. Lampert

President

/s/ Mark N. Lampert

MARK N. LAMPERT

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