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

		(Amendment No. 9)	
		Pieris Pharmaceuticals, Inc.	
		(Name of Issuer)	
		Common Stock, \$0.001 par value per share	
		(Title of Class of Securities)	
		720795103	
		(CUSIP Number)	
		December 31, 2022	
		(Date of Event Which Requires Filing of this Statement)	
Check the ap	propriate box to	o designate the rule pursuant to which this Schedule is filed:	
	Rule 13d-1(b		
\boxtimes	Rule 13d-1(c		
	Rule 13d-1(d		
	Kule 13u-1(u		
		his 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 aining information which would alter disclosures provided in a prior cover page.	I for any
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		quired on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchang to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).	e Act of 1934
()		(· · · · · · · · · ·	
CUSIP No. 7	20795103		
	1	NAME OF REPORTING PERSON	
	1	NAME OF REPORTING PERSON	
		Biotechnology Value Fund, L.P.	
	2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
	3	SEC USE ONLY	
l			

	Biotechnolog	y Value Fund, L.P.	
2		OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4		LACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER 0	
OWNED BY EACH REPORTING	6	SHARED VOTING POWER 4,623,054 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER 0	
	8	SHARED DISPOSITIVE POWER 4,623,054 (1)	
9	4,623,054 (1)	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLAS 6.0% (1)	SS REPRESENTED BY AMOUNT IN ROW (9)	

12	TYPE OF REPORTING PERSON
	PN

(1) Includes 2,083,000 Shares (as defined below) underlying certain Series B Preferred Stock (as defined below). The Series B Preferred Stock is subject to the Conversion B Limitation (as defined below).

2

CUSIP No. 720795103

1	NAME OF REPORTIN	NG PERSON	
	BVF I GP LLC		
2	CHECK THE APPRO	PRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) 🗆
	CECTICE ONLY		
3	SEC USE ONLY		
4	CITIZENSHIP OR PI	ACE OF ORGANIZATION	
	CITIZENSIIII OKTE	TOLO OROTHIEMION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH		4 (22 054 (1))	
REPORTING PERSON WITH	7	4,623,054 (1) SOLE DISPOSITIVE POWER	
PERSON WITH	/	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
Ï		SIMILES BISTOSITIVE TO WER	
		4,623,054 (1)	
9	AGGREGATE AMOU	INT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4,623,054 (1)		
10	CHECK BOX IF THE	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS	REPRESENTED BY AMOUNT IN ROW (9)	
11	I LICENT OF CLASS	ALIALDENTED DI AMOUNT IN NOW (7)	
	6.0% (1)		
12	TYPE OF REPORTIN	G PERSON	
	00		

(1) Includes 2,083,000 Shares underlying certain Series B Preferred Stock. The Series B Preferred Stock is subject to the Conversion B Limitation.

3

1	NAME OF REPOR	TING PERSON		
	Biotechnolo			
2		Biotechnology Value Fund II, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		
			(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		2.486.970 (1)		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0		
	8	SHARED DISPOSITIVE POWER		
		2,486,970 (1)		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	2,486,970 (1)		
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		

11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	3.3% (1)
12	TYPE OF REPORTING PERSON
	PN

(1) Includes 445,740 Shares underlying certain Series B Preferred Stock. The Series B Preferred Stock is subject to the Conversion B Limitation.

4

CUSIP No. 720795103

	4					
1	NAME OF REPORT	NAME OF REPORTING PERSON				
	BVF II GP LLC					
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠			
			(b) 🗆			
3	SEC USE ONLY					
4	CITIZENSHIP OR P	LACE OF ORGANIZATION				
	Delaware	GOVE VICENIA DOVIED				
NUMBER OF	5	SOLE VOTING POWER				
SHARES BENEFICIALLY		0				
OWNED BY		SHARED VOTING POWER				
EACH	6	SHARED VOTING POWER				
REPORTING		2,486,970 (1)				
PERSON WITH	7	SOLE DISPOSITIVE POWER				
I LKSON WITH	/	SOLE DISPOSITIVE FOWER				
		0				
	8	SHARED DISPOSITIVE POWER				
İ		STAILED DISTOSTITY DI OWEK				
ii ii		2,486,970 (1)				
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	2,486,970 (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)				
	3.3% (1)					
12	TYPE OF REPORTI	NG PERSON				
	00					

(1) Includes 445,740 Shares underlying certain Series B Preferred Stock. The Series B Preferred Stock is subject to the Conversion B Limitation.

5

1	NAME OF REPORT	NAME OF REPORTING PERSON		
	Biotechnology	Value Trading Fund OS LP		
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		
	Cayman Island			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		307,730 (1)		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
rekson with	/	SOLE DISPOSITIVE POWER		
		0		
	8	SHARED DISPOSITIVE POWER		
	•	SHARED DISPOSITIVE FOWER		
		307,730 (1)		
9	AGGREGATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
,	AGGREGATE AMC	ONT BENEFICIALLY OWNED BY LACTINETON TING FERSON		
I	l .			

	307,730 (1)	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1% (1)	
12	TYPE OF REPORTING PERSON	
	PN	

(1) Includes 85,000 Shares underlying certain Series A Preferred Stock (as defined below). The Series A Preferred Stock is subject to the Conversion A Limitation (as defined below).

6

CUSIP No. 720795103

1	NAME OF REPORT	TING PERSON	-
	BVF Partners		
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
3	SEC USE ONL I		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION	
İ			
	Cayman Islar		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 SHARED VOTING POWER	
EACH	0	SHARED VOTING FOWER	
REPORTING		307,730 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		307,730 (1)	
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	TIGOTE GITTE TENT		
	307,730 (1)		
10	CHECK BOX IF TH	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DED CENT OF CLA	CO DEDDECENTED DV AMOUNT DI DOM (0)	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1%	(1)	
12	TYPE OF REPORT		
	CO		

(1) Includes 85,000 Shares underlying certain Series A Preferred Stock. The Series A Preferred Stock is subject to the Conversion A Limitation.

7

	1				
1	NAME OF REPORT	NAME OF REPORTING PERSON			
<u>[</u>					
	BVF GP Hold				
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠		
			(b) □		
3	SEC USE ONLY		-		
	CITIZENICIUS OR D	I LOD OD OD CLANGATION			
4	CITIZENSHIP OR P	LACE OF ORGANIZATION			
	Delaware				
NUMBER OF		SOLE VOTING POWER			
SHARES	5	SOLE VOTING POWER			
BENEFICIALLY		0	i		
DENEFICIALLI		V			
OWNED BY	6	SHARED VOTING POWER			
EACH					
REPORTING		7,110,024 (1)			
PERSON WITH	7	SOLE DISPOSITIVE POWER			
Ï					
Ï		0			

	8	SHARED DISPOSITIVE POWER	
		7,110,024 (1)	
9	AGGREGATE AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	7,110,024 (1)		
10	CHECK BOX IF THE	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLASS	REPRESENTED BY AMOUNT IN ROW (9)	
	9.4% (1)		
12	TYPE OF REPORTING	G PERSON	·
	OO		

(1) Includes 2,528,740 Shares underlying certain Series B Preferred Stock. The Series B Preferred Stock is subject to the Conversion B Limitation.

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CUSIP No. 720795103

	4		
1	NAME OF REPORTING PERSON		
	BVF Partner		(a) 🗵
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP		
			(b) □
3	SEC USE ONLY		
<u>l</u>			
	CIMITED IGINE OF	DV + CD CD CD CD VIG + WCCV	
4	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Delaware		
NUMBER OF	Delaware	SOLE VOTING POWER	
SHARES	3	SOLE VOTING POWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH	· ·	SIMIKED VOTINGTOWER	
REPORTING		7,694,060 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
Ï			
		0	
	8	SHARED DISPOSITIVE POWER	
		7,694,060 (1)	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	7 (04 060 (1	\ \	
10	7,694,060 (1		
10	CHECK BOX IF 1	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	Ц
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
11	I LIKELINI OF CLF	iso KERKESEATED BY AMOUNT IN NOW (7)	
	9.99% (1)		
12	TYPE OF REPORT	TING PERSON	
Ï			
	PN, IA		

(1) Includes 85,000 Shares underlying certain Series A Preferred Stock and 2,528,740 Shares underlying certain Series B Preferred Stock. The Series A Preferred Stock is subject to the Conversion A Limitation and the Series B Preferred Stock is subject to the Conversion B Limitation.

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1	NAME OF REPORTING PERSON		
	BVF Inc.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠ (b) □		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION		
Ï	Delaware		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER 0	
OWNED BY	6	SHARED VOTING POWER	

EACH		
REPORTING		7,694,060 (1)
PERSON WITH	7	SOLE DISPOSITIVE POWER
İ		i i
Ï		0
	8	SHARED DISPOSITIVE POWER
İ		İ
ii		7,694,060 (1)
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
ii		
Ï	7,694,060 (1)	
10	CHECK BOX IF THE A	AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
ij		`´
Ï		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	
Ï		N/
Ï	9.99% (1)	
12	TYPE OF REPORTING PERSON	
ii		
	СО	

(1) Includes 85,000 Shares underlying certain Series A Preferred Stock and 2,528,740 Shares underlying certain Series B Preferred Stock. The Series A Preferred Stock is subject to the Conversion A Limitation and the Series B Preferred Stock is subject to the Conversion B Limitation.

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CUSIP No. 720795103

	-			
1 NAME OF REPORTING PERSON		RTING PERSON		
	Mark N. La			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ☑			
			(b) □	
	SEC USE ONLY			
3	SEC USE ONL I			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
	United State			
NUMBER OF	5	SOLE VOTING POWER		
SHARES BENEFICIALLY				
OWNED BY	6	0 SHARED VOTING POWER		
EACH	0	SHARED VOTING TOWER		
REPORTING		7,694,060 (1)		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0		
	8	SHARED DISPOSITIVE POWER		
		7,694,060 (1)		
9	AGGREGATE AN	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
•				
	7,694,060 (1			
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
	DED CENTE OF CL	A CC DEDDECENTED DV A MOUNT IN DOW (0)		
11	PERCENT OF CL.	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	9.99% (1)			
12	TYPE OF REPOR	TING PERSON		
	IN			

(1) Includes 85,000 Shares underlying certain Series A Preferred Stock and 2,528,740 Shares underlying certain Series B Preferred Stock. The Series A Preferred Stock is subject to the Conversion A Limitation and the Series B Preferred Stock is subject to the Conversion B Limitation.

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CUSIP No. 720795103

Item 1(a). Name of Issuer:

Pieris Pharmaceuticals, Inc., a Nevada corporation (the "Issuer").

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

255 State Street, 9th Floor Boston, MA 02109

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

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CUSIP No. 720795103

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 Stock, \$0.001 par value per share (the "Shares")

Item 2(e). CUSIP Number:

720795103

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) // A non-U.S. institution, in accordance with Rule 13d-1(b)(1)(ii)(J).
 (k) // Group, in accordance with Rule 13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please
 - 13

specify the type of institution: ___

CUSIP No. 720795103

Item 4. Ownership

(a) Amount beneficially owned:

The Reporting Persons hold 85 shares of Series A Convertible Preferred Stock (the "Series A Preferred Stock"), convertible for an aggregate of 85,000 Shares. Each share of the Series A Preferred Stock is convertible into 1,000 Shares. The Series A Preferred Stock 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, as amended (the "Exchange Act"), more than 9.99% of the number of Shares then issued and outstanding (the "Conversion A Limitation"). As of the close of business on December 31, 2022, the Conversion A Limitation does not limit the conversion of any of the Series A Preferred Stock held by the Reporting Persons. In providing beneficial ownership described herein, the Reporting Persons have assumed that the Series A Preferred Stock owned by Trading Fund OS convertible into 85,000 Shares would be converted.

The Reporting Persons hold 4,026 shares of Series B Convertible Preferred Stock (the "Series B Preferred Stock"), convertible for an aggregate of 4,026,000 Shares. Each share of the Series B Preferred Stock is convertible into 1,000 Shares. The Series B Preferred Stock may not be converted if, after such conversion, the Reporting Persons would beneficially own, as determined in accordance with Section 13(d) of the Exchange Act, more than 9.99% of the number of Shares then issued and outstanding (the "Conversion B Limitation"). As of the close of business on December 31, 2022, the Conversion B Limitation limits the aggregate conversion of the Series B Preferred Stock by the Reporting Persons to 2,528,740 out of the 4,026,000 Shares underlying the Series B Preferred Stock owned by the Reporting Persons in the aggregate. In providing beneficial ownership described herein, the Reporting Persons have assumed that certain of the Series B Preferred Stock owned by BVF and BVF2 convertible into 2,083,000 Shares and 445,740 Shares, respectively, would be converted, and the remaining Series B Preferred Stock held by the Reporting Persons would not be converted due to the Conversion B Limitation.

The Reporting Persons hold 3,506 shares of Series C Convertible Preferred Stock (the "Series C Preferred Stock"), convertible for an aggregate of 3,506,000 Shares. Each share of the Series C Preferred Stock is convertible into 1,000 Shares. The Series C Preferred Stock may not be converted if, after such conversion, the Reporting Persons would beneficially own, as determined in accordance with Section 13(d) of the Exchange Act, more than 9.99% of the number of Shares then issued and outstanding (the "Conversion C Limitation"). As of the close of business on December 31, 2022, the Conversion C Limitation limits the aggregate conversion of the Series C Preferred Stock by the Reporting Persons to 0 out of the 3,506,000 Shares underlying the Series C Preferred Stock owned by the Reporting Persons in the aggregate. In providing beneficial ownership described herein, the Reporting Persons have assumed that the Series C Preferred Stock owned by each of BVF, BVF2 and Trading Fund OS would not be converted due to the Conversion C Limitation.

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CUSIP No. 720795103

The Reporting Persons hold 3,000 shares of Series D Convertible Preferred Stock (the "Series D Preferred Stock"), convertible for an aggregate of 3,000,000 Shares. Each share of the Series D Preferred Stock is convertible into 1,000 Shares. The Series D Preferred Stock may not be converted if, after such conversion, the Reporting Persons would beneficially own, as determined in accordance with Section 13(d) of the Exchange Act, more than 9.99% of the number of Shares then issued and outstanding (the "Conversion D Limitation"). As of the close of business on December 31, 2022, the Conversion D Limitation limits the aggregate conversion of the Series D Preferred Stock by the Reporting Persons to 0 out of the 3,000,000 Shares underlying the Series D Preferred Stock owned by the Reporting Persons in the aggregate. In providing beneficial ownership described herein, the Reporting Persons have assumed that the Series D Preferred Stock owned by each of BVF, BVF2 and Trading Fund OS would not be converted due to the Conversion D Limitation.

The Reporting Persons hold 5,000 shares of Series E Convertible Preferred Stock (the "Series E Preferred Stock"), convertible for an aggregate of 5,000,000 Shares. Each share of the Series E Preferred Stock is convertible into 1,000 Shares. The Series E Preferred Stock may not be converted if, after such conversion, the Reporting Persons would beneficially own, as determined in accordance with Section 13(d) of the Exchange Act, more than 9.99% of the number of Shares then issued and outstanding (the "Conversion E Limitation"). As of the close of business on December 31, 2022, the Conversion E Limitation limits the aggregate conversion of the Series E Preferred Stock by the Reporting Persons to 0 out of the 5,000,000 Shares underlying the Series E Preferred Stock owned by the Reporting Persons in the aggregate. In providing beneficial ownership described herein, the Reporting Persons have assumed that the Series E Preferred Stock owned by each of BVF, BVF2 and Trading Fund OS and held in certain Partners managed accounts (the "Partners Managed Accounts") would not be converted due to the Conversion E Limitation.

The Reporting Persons hold 3,522,000 Tranche C Warrants (the "C Warrants") exercisable for an aggregate of 3,522,000 Shares. The C Warrants have an exercise price of \$7.10 per share. The C Warrants may not be exercised if, after such exercise, the Reporting Persons would beneficially own, as determined in accordance with Section 13(d) of the Exchange Act, more than 9.99% of the number of Shares then issued and outstanding (the "C Warrants Blocker"). As of the close of business on December 31, 2022, the C Warrants Blocker limits the aggregate exercise of the C Warrants by the Reporting Persons to 0 out of the 3,522,000 Shares underlying the C Warrants owned by the Reporting Persons in the aggregate. In providing beneficial ownership described herein, the Reporting Persons have assumed the C Warrants owned by each of BVF, BVF2 and Trading Fund OS and held in the Partners Managed Accounts would not be exercised due to the C Warrants Blocker.

As of the close of business on December 31, 2022, (i) BVF beneficially owned 4,623,054 Shares, including 2,083,000 Shares underlying certain Series B Preferred Stock held by it, and excluding (a) 1,796,000 Shares issuable upon the conversion of the Series C Preferred Stock held by it, (b) 1,759,000 Shares issuable upon the conversion of Series E Preferred Stock held by it, and (d) 1,796,000 Shares issuable upon the exercise of the C Warrants held by it, (ii) BVF2 beneficially owned 2,486,970 Shares, including 445,740 Shares underlying certain Series B Preferred Stock held by it, and excluding (a) 1,213,260 Shares issuable upon the conversion of the Series B Preferred Stock held by it, (b) 1,445,000 Shares issuable upon the conversion of the Series C Preferred Stock held by it, (c) 1,078,000 Shares issuable upon the conversion of the Series D Preferred Stock held by it, (d) 1,867,000 Shares issuable upon the conversion of the Series E Preferred Stock held by it, and (e) 1,445,000 Shares issuable upon the exercise of the C Warrants held by it, and (iii) Trading Fund OS beneficially owned 307,730 Shares, including 85,000 Shares issuable upon the conversion of the Series A Preferred Stock held by it, and excluding (a) 284,000 Shares issuable upon the conversion of the Series B Preferred Stock held by it, (b) 265,000 Shares issuable upon the conversion of the Series B Preferred Stock held by it, (d) 161,000 Shares issuable upon the conversion of the Series B Preferred Stock held by it, (d) 161,000 Shares issuable upon the conversion of the Series B Preferred Stock held by it, (d) 161,000 Shares issuable upon the conversion of the Series B Preferred Stock held by it, (d) 161,000 Shares issuable upon the conversion of the Series B Preferred Stock held by it, (d) 161,000 Shares issuable upon the conversion of the Series B Preferred Stock held by it, (d) 161,000 Shares issuable upon the conversion of the Series B Preferred Stock held by it, (d) 161,000 Shares issuable upon the conversion of the Series B Preferred Stock

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 4,623,054 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 2,486,970 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 307,730 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 7,110,024 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 7,694,060 Shares beneficially owned in the aggregate by BVF, BVF2 and Trading Fund OS and held in the Partners Managed Accounts, including 276,306 Shares held in the Partners Managed Accounts, and excluding (a) 302,000 Shares issuable upon the exercise of the Series E Preferred Stock held in the Partners Managed Accounts, and (b) 16,000 Shares issuable upon the exercise of C Warrants held in the Partners Managed Accounts.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 7,694,060 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 7,694,060 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 BVF2. Partners OS disclaims beneficial ownership of the Shares beneficially owned by Trading Fund OS. BVF GPH disclaims beneficial ownership of the Shares beneficially owned by BVF and BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares beneficially owned by BVF, BVF2 and Trading Fund OS and held in the Partners Managed Accounts, 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.

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(b) Percent of class:

The following percentages are based upon a denominator which is the sum of (i) 74,406,253 Shares outstanding, as of November 1, 2022, which is the total number of Shares outstanding as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 4, 2022, (ii) all of the 85,000 Shares underlying the Series A Preferred Stock currently convertible which are held by the Reporting Persons and (iii) certain or all of the 2,528,740 Shares underlying the Series B Preferred Stock currently convertible, as applicable, which are held by the Reporting Persons.

As of the close of business on December 31, 2022, (i) BVF beneficially owned approximately 6.0% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 3.3% 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 3.3% of the outstanding Shares, (vi) Partners OS may be deemed to beneficially own less than 1% of the outstanding Shares, (vii) BVF GPH may be deemed to beneficially own approximately 9.4% of the outstanding Shares, and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 9.99% of the outstanding Shares (less than 1% of the outstanding Shares are held in the Partners Managed Accounts).

- (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.

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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 beneficially owned by BVF. BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF2. Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by Trading Fund OS and held in 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. 5 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.

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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, 2023

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