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

Pieris Pharmaceuticals, Inc.
(Name of Issuer)
Common Stock, par value \$0.001 per share
(Title of Class of Securities)
720795103
(CUSIP Number)
December 31, 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	
		gy Value Fund, L.P.	
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		SOLD YOUR OF WERE	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH		STANCES FORM OF OWER	
REPORTING		2,820,141 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
TERROOT WITH	,	SOLE DISTOSITIVE TO WER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SHARLD DISTOSITIVE TOWER	
		2,820,141 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
,	AGGREGATE AN	IOONI BENEFICIALLI OWNED DI LACII REFORTING LERSON	
	2,820,141 (1	)	
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П
10	CILCR DOX II	THE MOOREON E MINORY IN ROW (7) EXCEODES CERTAIN SHARES	
11	PERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	I ERCENT OF CL	ADD REI RESERVED DT AMIOUNT IN ROW (3)	
	5.0% (1)		
12	TYPE OF REPOR	TING DEDSON	
12	TITE OF KEFOR	TINO I ERSON	
	PN		
	111		

(1) Includes 107,000 shares of Common Stock underlying certain shares of Series A Preferred Stock (defined in Item 4). Excludes 1,460,000 shares of Common Stock underlying the Series A Preferred Stock currently not convertible due to the Conversion Limitation (defined in Item 4).

Excludes 2,573,000 shares of Common Stock underlying the Series B Preferred Stock (defined in Item 4) currently not convertible due to the Conversion B Limitation (defined in Item 4).

Excludes 1,796,000 shares of Common Stock underlying the Series C Preferred Stock (defined in Item 4) currently not convertible due to the Conversion C Limitation (defined in Item 4).

Excludes 1,759,000 shares of Common Stock underlying the Series D Preferred Stock (defined in Item 4) currently not convertible due to the Conversion D Limitation (defined in Item 4).

Excludes the A Warrants (defined in Item 4) to acquire 854,800 shares of Common Stock as a result of the A Warrants Blocker (defined in Item 4).

Excludes the B Warrants (defined in Item 4) to acquire 427,400 shares of Common Stock as a result of the B Warrants Blocker (defined in Item 4).

Excludes the C Warrants (defined in Item 4) to acquire 1,796,000 shares of Common Stock as a result of the C Warrants Blocker (defined in Item 4).

1	NAME OF REPORT	ING PERSON	
	BVF I GP LLC		
2		OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	Delaware	T. a.	
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		2,820,141 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		2,820,141 (1)	
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2 920 141 (1)		
10	2,820,141 (1) CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
11	TERCENT OF CLAS	55 KLI KLSENTED DT AMOUNT IN KOW (5)	
	5.0% (1)		
12	TYPE OF REPORTI	NG PERSON	
	00		

(1) Includes 107,000 shares of Common Stock underlying certain shares of Series A Preferred Stock. Excludes 1,460,000 shares of Common Stock underlying the Series A Preferred Stock currently not convertible due to the Conversion Limitation.

Excludes 2,573,000 shares of Common Stock underlying the Series B Preferred Stock currently not convertible due to the Conversion B Limitation.

Excludes 1,796,000 shares of Common Stock underlying the Series C Preferred Stock currently not convertible due to the Conversion C Limitation.

Excludes 1,759,000 shares of Common Stock underlying the Series D Preferred Stock currently not convertible due to the Conversion D Limitation.

Excludes the A Warrants to acquire 854,800 shares of Common Stock as a result of the A Warrants Blocker.

Excludes the B Warrants to acquire 427,400 shares of Common Stock as a result of the B Warrants Blocker.

Excludes the C Warrants to acquire 1,796,000 shares of Common Stock as a result of the C Warrants Blocker.

	-		
1	NAME OF REPO	ORTING PERSON	
		ogy Value Fund II, L.P.	
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	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		2,114,827 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		2,114,827 (1)	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,114,827 (	1)	
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	3.8% (1)		
12	TYPE OF REPOR	RTING PERSON	
	PN		

(1) Excludes 1,021,000 shares of Common Stock underlying the Series A Preferred Stock currently not convertible due to the Conversion Limitation.

Excludes 2,143,000 shares of Common Stock underlying the Series B Preferred Stock currently not convertible due to the Conversion B Limitation.

Excludes 1,445,000 shares of Common Stock underlying the Series C Preferred Stock currently not convertible due to the Conversion C Limitation.

Excludes 1,078,000 shares of Common Stock underlying the Series D Preferred Stock currently not convertible due to the Conversion D Limitation.

Excludes the A Warrants to acquire 560,400 shares of Common Stock as a result of the A Warrants Blocker.

Excludes the B Warrants to acquire 280,200 shares of Common Stock as a result of the B Warrants Blocker.

Excludes the C Warrants to acquire 1,445,000 shares of Common Stock as a result of the C Warrants Blocker.

-			
1	NAME OF REPO	RTING PERSON	
	BVF II GP I		
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	L GOVE WOMEN TO NAMED	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares SHARED VOTING POWER	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		2 114 927 (1)	
PERSON WITH	7	2,114,827 (1) SOLE DISPOSITIVE POWER	
FERSON WITH	/	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	8	SHARED DISTOSITIVE TOWER	
		2,114,827 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	2,114,827 (1		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
		`,	
11	PERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	3.8% (1)		
12	TYPE OF REPOR	RTING PERSON	
	00		

(1) Excludes 1,021,000 shares of Common Stock underlying the Series A Preferred Stock currently not convertible due to the Conversion Limitation.

Excludes 2,143,000 shares of Common Stock underlying the Series B Preferred Stock currently not convertible due to the Conversion B Limitation.

Excludes 1,445,000 shares of Common Stock underlying the Series C Preferred Stock currently not convertible due to the Conversion C Limitation.

Excludes 1,078,000 shares of Common Stock underlying the Series D Preferred Stock currently not convertible due to the Conversion D Limitation.

Excludes the A Warrants to acquire 560,400 shares of Common Stock as a result of the A Warrants Blocker.

Excludes the B Warrants to acquire 280,200 shares of Common Stock as a result of the B Warrants Blocker.

Excludes the C Warrants to acquire 1,445,000 shares of Common Stock as a result of the C Warrants Blocker.

1	NAME OF REPO	RTING PERSON	
		gy Value Trading Fund OS LP	
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 Isla	ands	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		311,397 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		311,397 (1)	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	311,397 (1)		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 19		
12	TYPE OF REPOR	RTING PERSON	
	PN		

(1) Excludes 319,000 shares of Common Stock underlying the Series A Preferred Stock currently not convertible due to the Conversion Limitation.

Excludes 284,000 shares of Common Stock underlying the Series B Preferred Stock currently not convertible due to the Conversion B Limitation.

Excludes 265,000 shares of Common Stock underlying the Series C Preferred Stock currently not convertible due to the Conversion C Limitation.

Excludes 163,000 shares of Common Stock underlying the Series D Preferred Stock currently not convertible due to the Conversion D Limitation.

Excludes the A Warrants to acquire 167,600 shares of Common Stock as a result of the A Warrants Blocker.

Excludes the B Warrants to acquire 83,800 shares of Common Stock as a result of the B Warrants Blocker.

Excludes the C Warrants to acquire 265,000 shares of Common Stock as a result of the C Warrants Blocker.

1	NAME OF REPO	RTING PERSON	
	BVF Partner	rs OS Ltd.	
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	
	Cayman Isla	ands	
NUMBER OF	5	SOLE VOTING POWER	
SHARES	-		
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		311,397 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
	,	COLL BIGIOGITI ET CHER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		STRICE BISTOSTITVE TO WER	
		311,397 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
ĺ	1.30112.01112.111	ELOCAL DESCRIPTION OF THE DESCRIPTION OF ERROUT	
	311,397 (1)		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П
10	CILCIN BOX II	THE TOOKE OF THE THIRD OF THE ROOM (7) EXCELLED CERTAIN SHARES	<u> </u>
11	PERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	I EKCENI OF CL	AND REALISED DI AMOUNI IN NOW (7)	
	Less than 19	% (1)	
12	TYPE OF REPOR		
12	I I FE OF KEPOR	ATINO I ERSON	
	CO		
	CO		

(1) Excludes 319,000 shares of Common Stock underlying the Series A Preferred Stock currently not convertible due to the Conversion Limitation.

Excludes 284,000 shares of Common Stock underlying the Series B Preferred Stock currently not convertible due to the Conversion B Limitation.

Excludes 265,000 shares of Common Stock underlying the Series C Preferred Stock currently not convertible due to the Conversion C Limitation.

Excludes 163,000 shares of Common Stock underlying the Series D Preferred Stock currently not convertible due to the Conversion D Limitation.

Excludes the A Warrants to acquire 167,600 shares of Common Stock as a result of the A Warrants Blocker.

Excludes the B Warrants to acquire 83,800 shares of Common Stock as a result of the B Warrants Blocker.

Excludes the C Warrants to acquire 265,000 shares of Common Stock as a result of the C Warrants Blocker.

1	NAME OF REPO	RTING PERSON	
		OLDINGS LLC	
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OI	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES		0.1	
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		4 024 069 (1)	
PERSON WITH	7	4,934,968 (1)  SOLE DISPOSITIVE POWER	
TERSON WITH	/	SOLE DISPOSITIVE FOWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		4,934,968 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4,934,968 (1		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	0.00/ (1)		
12	8.8% (1)	DED LO DED GOV	
12	TYPE OF REPOR	CTING PERSON	
	00		
	00		

(1) Includes 107,000 shares of Common Stock underlying certain shares of Series A Preferred Stock. Excludes 2,481,000 shares of Common Stock underlying the Series A Preferred Stock currently not convertible due to the Conversion Limitation.

Excludes 4,716,000 shares of Common Stock underlying the Series B Preferred Stock currently not convertible due to the Conversion B Limitation.

Excludes 3,241,000 shares of Common Stock underlying the Series C Preferred Stock currently not convertible due to the Conversion C Limitation.

Excludes 2,837,000 shares of Common Stock underlying the Series D Preferred Stock currently not convertible due to the Conversion D Limitation.

Excludes the A Warrants to acquire 1,415,200 shares of Common Stock as a result of the A Warrants Blocker.

Excludes the B Warrants to acquire 707,600 shares of Common Stock as a result of the B Warrants Blocker.

Excludes the C Warrants to acquire 3,241,000 shares of Common Stock as a result of the C Warrants Blocker.

1	NAME OF REPO	RTING PERSON	
	BVF Partne	rs L.P.	
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OI	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		5,601,582 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		5,601,582 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	5,601,582 (1		
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	
		· ·	
	9.99% (1)		
12	TYPE OF REPOR	RTING PERSON	
	PN, IA		

(1) Includes 107,000 shares of Common Stock underlying certain shares of Series A Preferred Stock. Excludes 2,800,000 shares of Common Stock underlying the Series A Preferred Stock currently not convertible due to the Conversion Limitation.

Excludes 5,000,000 shares of Common Stock underlying the Series B Preferred Stock currently not convertible due to the Conversion B Limitation.

Excludes 3,522,000 shares of Common Stock underlying the Series C Preferred Stock currently not convertible due to the Conversion C Limitation.

Excludes 3,000,000 shares of Common Stock underlying the Series D Preferred Stock currently not convertible due to the Conversion D Limitation.

Excludes the A Warrants to acquire 1,985,200 shares of Common Stock as a result of the A Warrants Blocker.

Excludes the B Warrants to acquire 992,600 shares of Common Stock as a result of the B Warrants Blocker.

Excludes the C Warrants to acquire 3,522,000 shares of Common Stock as a result of the C Warrants Blocker.

	1111 F OF P 0	DED 10 DED 2011	
1	NAME OF REPOR	RTING PERSON	
	D		
	BVF Inc.		
2	CHECK THE APP	PROPRIATE 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		0.1	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		5 (01 592 (1)	
PERSON WITH	7	5,601,582 (1) SOLE DISPOSITIVE POWER	
reason with	/	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	8	SHARED DISTOSITIVE TOWER	
		5,601,582 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	713GREGITE / IIV	DESCRIPTION AND DI ENGINEE ONING LEROON	
	5,601,582 (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	
	СО		

(1) Includes 107,000 shares of Common Stock underlying certain shares of Series A Preferred Stock. Excludes 2,800,000 shares of Common Stock underlying the Series A Preferred Stock currently not convertible due to the Conversion Limitation.

Excludes 5,000,000 shares of Common Stock underlying the Series B Preferred Stock currently not convertible due to the Conversion B Limitation.

Excludes 3,522,000 shares of Common Stock underlying the Series C Preferred Stock currently not convertible due to the Conversion C Limitation.

Excludes 3,000,000 shares of Common Stock underlying the Series D Preferred Stock currently not convertible due to the Conversion D Limitation.

Excludes the A Warrants to acquire 1,985,200 shares of Common Stock as a result of the A Warrants Blocker.

Excludes the B Warrants to acquire 992,600 shares of Common Stock as a result of the B Warrants Blocker.

Excludes the C Warrants to acquire 3,522,000 shares of Common Stock as a result of the C Warrants Blocker.

1	NAME OF REPOR	RTING PERSON	
	Mark N. Lan	nnert	
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	** ** ** **		
NUMBER OF	United States	SOLE VOTING POWER	
SHARES	3	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH		5 (01 500 (1)	
REPORTING PERSON WITH	7	5,601,582 (1) SOLE DISPOSITIVE POWER	
I LKSON WITH	/	SOLE DISPOSITIVE FOWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		5,601,582 (1)	
9	AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	5 (01 500 (1)		
10	5,601,582 (1	) THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П
10	CILCR BOX II I	TIL TOGREGATE AMOUNT IN NOW (7) ENCEODES 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 107,000 shares of Common Stock underlying certain shares of Series A Preferred Stock. Excludes 2,800,000 shares of Common Stock underlying the Series A Preferred Stock currently not convertible due to the Conversion Limitation.

Excludes 5,000,000 shares of Common Stock underlying the Series B Preferred Stock currently not convertible due to the Conversion B Limitation.

Excludes 3,522,000 shares of Common Stock underlying the Series C Preferred Stock currently not convertible due to the Conversion C Limitation.

Excludes 3,000,000 shares of Common Stock underlying the Series D Preferred Stock currently not convertible due to the Conversion D Limitation.

Excludes the A Warrants to acquire 1,985,200 shares of Common Stock as a result of the A Warrants Blocker.

Excludes the B Warrants to acquire 992,600 shares of Common Stock as a result of the B Warrants Blocker.

Excludes the C Warrants to acquire 3,522,000 shares of Common Stock as a result of the C Warrants Blocker.

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, Massachusetts 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

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

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)	//	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 2,907 shares of Series A Convertible Preferred Stock (the "Series A Preferred Stock"), convertible for an aggregate of 2,907,000 shares of Common Stock. Each share of the Series A Preferred Stock is convertible into 1,000 shares of Common Stock. 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 of Common Stock then issued and outstanding (the "Conversion Limitation"). As of the close of business on December 31, 2020, the Conversion Limitation limits the aggregate conversion of the Series A Preferred Stock held by the Reporting Persons to 107,000 out of the 2,907,000 shares of Common Stock underlying the Series A Preferred Stock owned by the Reporting Persons in the aggregate. In providing beneficial ownership described herein, the Reporting Persons have assumed that the Series A Preferred Stock owned by each of BVF2 and Trading Fund OS would not be converted due to the Conversion Limitation, and that certain of the Series A Preferred Stock held by BVF referencing 107,000 shares of Common Stock would be converted.

The Reporting Persons hold 5,000 shares of Series B Convertible Preferred Stock (the "Series B Preferred Stock"), convertible for an aggregate of 5,000,000 shares of Common Stock. Each share of the Series B Preferred Stock is convertible into 1,000 shares of Common Stock. 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 of Common Stock then issued and outstanding (the "Conversion B Limitation"). As of the close of business on December 31, 2020, the Conversion B Limitation limits the aggregate conversion of the Series B Preferred Stock by the Reporting Persons to 0 out of the 5,000,000 shares of Common Stock 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 the Series B Preferred Stock owned by each of BVF, BVF2 and Trading Fund OS would not be converted due to the Conversion B Limitation.

The Reporting Persons hold 3,522 shares of Series C Convertible Preferred Stock (the "Series C Preferred Stock"), convertible for an aggregate of 3,522,000 shares of Common Stock. Each share of the Series C Preferred Stock is convertible into 1,000 shares of Common Stock. 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 of Common Stock then issued and outstanding (the "Conversion C Limitation"). As of the close of business on December 31, 2020, the Conversion C Limitation limits the aggregate conversion of the Series C Preferred Stock by the Reporting Persons to 0 out of the 3,522,000 shares of Common Stock 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 and held in certain Partners managed accounts (the "Partners Managed Accounts") would not be converted due to the Conversion C Limitation.

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 of Common Stock. Each share of the Series D Preferred Stock is convertible into 1,000 shares of Common Stock. 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 of Common Stock then issued and outstanding (the "Conversion D Limitation"). As of the close of business on December 31, 2020, the Conversion C Limitation limits the aggregate conversion of the Series D Preferred Stock by the Reporting Persons to 0 out of the 3,000,000 shares of Common Stock 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 D Limitation.

The Reporting Persons hold 1,985,200 Tranche A Warrants (the "A Warrants") exercisable for an aggregate of 1,985,200 shares of Common Stock. The A Warrants have an exercise price of \$2.00 per share and expire on June 8, 2021. The A 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 of Common Stock then issued and outstanding (the "A Warrants Blocker"). As of the close of business on December 31, 2020, the A Warrants Blocker limits the aggregate exercise of the A Warrants by the Reporting Persons to 0 out of the 1,985,200 shares of Common Stock underlying the A Warrants owned by the Reporting Persons in the aggregate. In providing beneficial ownership described herein, the Reporting Persons have assumed the A 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 A Warrants Blocker.

The Reporting Persons hold 992,600 Tranche B Warrants (the "B Warrants") exercisable for an aggregate of 992,600 shares of Common Stock. The B Warrants have an exercise price of \$3.00 per share and expire on June 8, 2021. The B 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 of Common Stock then issued and outstanding (the "B Warrants Blocker"). As of the close of business on December 31, 2020, the B Warrants Blocker limits the aggregate exercise of the B Warrants by the Reporting Persons to 0 out of the 992,600 shares of Common Stock underlying the B Warrants owned by the Reporting Persons in the aggregate. In providing beneficial ownership described herein, the Reporting Persons have assumed the B 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 B Warrants Blocker.

The Reporting Persons hold 3,522,000 Tranche C Warrants (the "C Warrants") exercisable for an aggregate of 3,522,000 shares of Common Stock. 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 of Common Stock then issued and outstanding (the "C Warrants Blocker"). As of the close of business on December 31, 2020, the C Warrants Blocker limits the aggregate exercise of C Warrants by the Reporting Persons to 0 out of the 3,522,000 shares of Common Stock 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 certain Partners Managed Accounts would not be exercised due to the C Warrants Blocker.

As of the close of business on December 31, 2020, (i) BVF beneficially owned 2,820,141 shares of Common Stock including 107,000 shares of Common Stock underlying certain shares of Series A Preferred Stock held by it and excluding (a) 1,460,000 shares of Common Stock issuable upon the conversion of the Series A Preferred Stock held by it, (b) 2,573,000 shares of Common Stock issuable upon the conversion of the Series B Preferred Stock held by it, (c) 1,796,000 shares of Common Stock issuable upon the conversion of the Series C Preferred Stock held by it, (d) 1,759,000 shares of Common Stock issuable upon the conversion of the Series D Preferred Stock held by it, (e) 854,800 shares of Common Stock issuable upon the exercise of the A Warrants held by it, (f) 427,400 shares of Common Stock issuable upon the exercise of the B Warrants held by it; and (g) 1,796,000 shares of Common Stock issuable upon the exercise of C Warrants held by it, (ii) BVF2 beneficially owned 2,114,827 shares of Common Stock, excluding (a) 1,021,000 shares of Common Stock issuable upon the conversion of the Series A Preferred Stock held by it, (b) 2,143,000 shares of Common Stock issuable upon the conversion of the Series B Preferred Stock held by it, (c) 1,445,000 shares of Common Stock issuable upon the conversion of the Series C Preferred Stock held by it, (d) 1,078,000 shares of Common Stock issuable upon the conversion of the Series D Preferred Stock held by it, (e) 560,400 shares of Common Stock issuable upon the exercise of the A Warrants held by it, (f) 280,200 shares of Common Stock issuable upon the exercise of the B Warrants held by it; and (g) 1,445,000 shares of Common Stock issuable upon the exercise of C Warrants held by it, and (iii) Trading Fund OS beneficially owned 311,397 shares of Common Stock, excluding (a) 319,000 shares of Common Stock issuable upon the conversion of the Series A Preferred Stock held by it, (b) 284,000 shares of Common Stock issuable upon the conversion of the Series B Preferred Stock held by it, (c) 265,000 shares of Common Stock issuable upon the conversion of the Series C Preferred Stock held by it, (d) 163,000 shares of Common Stock issuable upon the conversion of the Series D Preferred Stock held by it, (e) 167,600 shares of Common Stock issuable upon the exercise of the A Warrants held by it, (f) 83,800 shares of Common Stock issuable upon the exercise of the B Warrants held by it, and (g) 265,000 shares of Common Stock issuable upon the exercise of C Warrants held by it.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 2,820,141 shares of Common Stock beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 2,114,827 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 311,397 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 4,934,968 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 5,601,582 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and the Partners Managed Accounts, including 355,217 shares of Common Stock held in the Partners Managed Accounts, and excluding (a) 16,000 shares of Common Stock issuable upon the conversion of the Series C Preferred Stock held in the Partners Managed Accounts, (b) 402,400 shares of Common Stock issuable upon the exercise of A Warrants held in the Partners Managed Accounts, (c) 201,200 shares of Common Stock issuable upon the exercise of the B Warrants held in the Partners Managed Accounts, and (d) 16,000 shares of Common Stock 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 5,601,582 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 5,601,582 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 BVF2, 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.

#### (b) Percent of class:

The following percentages are based on a denominator which is the sum of (i) 55,970,580 shares of Common Stock outstanding, as of October 30, 2020, which is the total number of shares of Common Stock outstanding as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 12, 2019, and (ii) certain or all of the 107,000 shares of Common Stock underlying the Series A Preferred Stock currently convertible which are held by the Reporting Persons.

As of the close of business on December 31, 2020, (i) BVF beneficially owned approximately 5.0% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 3.8% 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 5.0% of the outstanding shares of Common Stock, (vi) BVF2 GP may be deemed to beneficially own approximately 3.8% of the outstanding shares of Common Stock, (vii) BVF GPH may be deemed to beneficially own approximately 8.8% 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 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.

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. 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.

By:

/s/ Mark N. Lampert Mark N. Lampert President

#### **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 12, 2021 BIOTECHNOLOGY VALUE FUND, L.P. BIOTECHNOLOGY VALUE TRADING FUND OS LP By: BVF Partners L.P., its investment manager BVF I GP LLC., its general partner BVF Inc., its general partner By: /s/ Mark N. Lampert Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert President BVF I GP LLC BVF GP HOLDINGS LLC /s/ Mark N. Lampert By: Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert Chief Executive Officer BIOTECHNOLOGY VALUE FUND II, L.P. BVF PARTNERS L.P. BVF II GP LLC, its general partner By: BVF Inc., its general partner By: /s/ Mark N. Lampert Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert President BVF II GP LLC BVF INC. By: /s/ Mark N. Lampert By: /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer Mark N. Lampert President BVF PARTNERS OS LTD. /s/ Mark N. Lampert BVF Partners L.P., its sole member MARK N. LAMPERT BVF Inc., its general partner

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