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

Verastem, Inc.
(Name of Issuer)
Common Stock, \$0.0001 par value per share
(Title of Class of Securities)
92337C104
(CUSIP Number)
January 6, 2022
(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 a 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, see the Notes).

	T		
1	NAME OF REPORTING PERSON		
		Biotechnology Value Fund, L.P.	
2	CHECK THE APPI	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		9,578,709	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		9,578,709	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	9,578,709		
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
		( )	
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	5.3%		
12	TYPE OF REPORT	TING PERSON	
	PN		
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1	NAME OF REPOR	TING PERSON	
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	BVF I GP LLC		
2	CHECK THE APPE	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
	CEC LICE ONLY		
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	-
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NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH			
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PERSON WITH	/	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
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9	AGGREGATE AIM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	9,578,709		
10	CHECK BOX IF TI	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	TERCENT OF CLA	ASSINE RESERVED DI AMOONTI IN NOW (3)	
	5.3%		
12	TYPE OF REPORT	ING PERSON	
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NAME OF REPOR	RTING PERSON	
Biotechnology Value Fund II, L.P.		
CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
		(b) □
SEC USE ONLY		
CITIZENSHIP OR	PLACE OF ORGANIZATION	
Delaware		
5	SOLE VOTING POWER	
	0	
6	SHARED VOTING POWER	
	7,589,372	
7	SOLE DISPOSITIVE POWER	
	0	
8	SHARED DISPOSITIVE POWER	
	7,589,372	
AGGREGATE AM	IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
7,589,372		
CHECK BOX IF T	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
	· ·	
PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
4.2%		
TYPE OF REPOR	TING PERSON	
PN		
	Biotechnolog CHECK THE APP  SEC USE ONLY  CITIZENSHIP OR  Delaware  5  6  7  8  AGGREGATE AM  7,589,372 CHECK BOX IF T  PERCENT OF CL.  4.2%  TYPE OF REPORT	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  SEC USE ONLY  CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware  5 SOLE VOTING POWER  0 SHARED VOTING POWER  7,589,372  7 SOLE DISPOSITIVE POWER  0 SHARED DISPOSITIVE POWER  7,589,372  AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  7,589,372  CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  4,2%  TYPE OF REPORTING PERSON

1	NAME OF REPOR	NAME OF REPORTING PERSON	
	P. W. O		
		BVF II GP LLC	
2	CHECK THE APPI	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		7,589,372	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		7 500 373	
	A C C D C A T C A M	7,589,372 OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9	AGGREGALE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
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10	7,589,372	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П
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11	DERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
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	4.2%		
12	TYPE OF REPORT	TNG PERSON	
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1	NAME OF REPORT	TING PERSON	
	Biotechnology Value Trading Fund OS LP		
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
3	SEC OSE ONE!		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION	
	Cormon Island	1.	
NUMBER OF	Cayman Island	SOLE VOTING POWER	
SHARES	3	SOLE VOING TOWER	
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		004.252	
PERSON WITH	7	994,353 SOLE DISPOSITIVE POWER	
TEROOR WITH	,	SOLE DISTOSITIVE FOWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		994,353	
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	994,353		_
10	CHECK BOX IF TH	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1%		
12	TYPE OF REPORT	ING PERSON	
	PN		
	111		

1	NAME OF REPOR	TING PERSON	
	BVF Partners OS Ltd.		
2	CHECK THE APP	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Cayman Islar	nds	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0	
OWNED BY	6	SHARED VOTING POWER	
EACH	-		
REPORTING		994,353	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
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		0	
	8	SHARED DISPOSITIVE POWER	
	· ·	OTHER BIOLOGITY BY ON BEE	
		994,353	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
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	994,353		
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П
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11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
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	Less than 1%		
12	TYPE OF REPORT		
12	TITE OF REPORT	IIIO I LIMOTI	
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1	NAME OF REPOF	RTING PERSON		
		BVF GP HOLDINGS LLC		
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		17,168,081		
PERSON WITH	7	SOLE DISPOSITIVE POWER	-	
		0		
	8	SHARED DISPOSITIVE POWER		
		17,168,081		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	17,168,081			
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	9.4%			
12	TYPE OF REPORT	TING PERSON		
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	T			
1	NAME OF REPORT	NAME OF REPORTING PERSON		
		BVF Partners L.P.		
2	CHECK THE APPE	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		18,506,158		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0		
	8	SHARED DISPOSITIVE POWER		
		18,506,158		
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	18,506,158			
10	CHECK BOX IF TH	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	10.2%			
12	TYPE OF REPORT	ING PERSON		
	PN, IA			
<u> </u>	<u> </u>			

1	NAME OF REPOR	ΓING PERSON	
	BVF Inc.		
2	CHECK THE APPR	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		18,506,158	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0	
	8	SHARED DISPOSITIVE POWER	
		18,506,158	
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	18,506,158		
10	CHECK BOX IF TH	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
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11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
		` '	
	10.2%		
12	TYPE OF REPORT	ING PERSON	
	CO		

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1	NAME OF REPOR	NAME OF REPORTING PERSON		
		Mark N. Lampert		
2	CHECK THE APPI	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠	
			(b) □	
3	SEC USE ONLY			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
	United States			
NUMBER OF	5	SOLE VOTING POWER	,	
SHARES				
BENEFICIALLY		0		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		18,506,158		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
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		0		
	8	SHARED DISPOSITIVE POWER		
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		18,506,158		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
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	18,506,158			
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П	
10	CHECK BOTT II	in regarded the revision of the result of th		
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	LINGER OF CER	to the thorities by thio of the total (s)		
	10.2%			
12	TYPE OF REPORT	INC PERSON		
12	TITE OF REPORT	ING I LIGOIN		
	IN			
	1111			

Item 1(a). Name of Issuer:

Verastem, Inc., a Delaware corporation (the "Issuer").

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

117 Kendrick Street, Suite 500 Needham, MA 02494

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") Citizenship: United States

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

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, \$0.0001 par value per share (the "Shares").

Item 2(e). **CUSIP Number:** 

92337C104

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:

11 11115 Sta	If This Statement is rifed Pulsuant to Rule 13d-1(0), of 13d-2(0) of (c), Check whether the Person rining 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 specify the type of institution:	

#### Item 4. Ownership

### (a) Amount beneficially owned:

As of the close of business on January 10, 2022, (i) BVF beneficially owned 9,578,709 Shares, (ii) BVF2 beneficially owned 7,589,372 Shares and (iii) Trading Fund OS beneficially owned 994,353 Shares.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 9,578,709 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 7,589,372 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 994,353 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 17,168,081 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 18,506,158 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and a certain Partners managed account (the "Partners Managed Account"), including 343,724 Shares held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 18,506,158 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 18,506,158 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, Trading Fund OS, and the Partners Managed Account, and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b) Percent of class:

The following percentages are based on 182,185,991 Shares outstanding as of November 3, 2021, as disclosed in the Issuer's Quarterly Report on Form 10-Q filed on November 4, 2021.

As of the close of business on January 10, 2022, (i) BVF beneficially owned approximately 5.3% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 4.2% 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 5.3% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 4.2% 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 10.2% of the outstanding Shares (less than 1% of the outstanding Shares are held in the Partners Managed Account).

- (c) Number of shares as to which such person has:
- (i) Sole power to vote or to direct the vote

See Cover Pages Items 5-9.

(ii) Shared power to vote or to direct the vote

See Cover Pages Items 5-9.

(iii) Sole power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

(iv) Shared power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

Item 5. Ownership of Five Percent or Less of a Class.

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 beneficially owned by BVF. BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF2 and BVF2 GP. Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by Trading Fund OS and 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. 1 to the Schedule 13G filed by the Reporting Persons 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: January 10, 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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