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. $)^1$

Verastem, Inc.
(Name of Issuer)
Common Stock, \$0.0001 par value
(Title of Class of Securities)
92337C104
(CUSIP Number)
May 10, 2019
(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).

Biotechnology Value Fund, L.P. 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (b) (b) (c) (c) (c) (d) (d) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	1	NAME OF DEDODT	TINC DEDSON		
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2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠ (b) □ 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION Delaware NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH 7 SOLE DISPOSITIVE POWER 0 shares 8 SHARED DISPOSITIVE POWER 2,710,775 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,710,775		Riotechnology Value Fund I D			
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	9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □					
	10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
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11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	11	PERCENT OF CLAS	22 KELKEZENTED RA WMONIT IN KOM (A)		
3.7%		3 7%			
12 TYPE OF REPORTING PERSON	12		NG PERSON		
111 Of REFORMING LEROON	14	TIL OF KEI OKII	TO LEROOT.		
PN		PN			

1	NAME OF DEDOD	TINC DEDSON		
1	NAME OF REPORTING PERSON			
	Biotechnology Value Fund II, L.P.			
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
2	CHECK THE ATT	OI MALE BOX II. A MEMBER OF A GROOT	(a) ⊠ (b) □	
			(6) \Box	
3	SEC USE ONLY			
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH	0	SHARED VOTING POWER		
REPORTING		2,194,114		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		2,194,114		
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	2,194,114			
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	Π	
10	CHECK BOX II' II	IE AGGREGATE AMOUNT IN NOW (3) EAGEODES CERTAIN SHARES		
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
		• •		
	3.0%			
12	TYPE OF REPORT	ING PERSON		
	DAT			
	PN			

1	NAME OF REPORTING PERSON		
	Biotechnology Value Trading Fund OS LP		
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 Islan	nds	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH	_		
REPORTING		390,152	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		390,152	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	390,152		
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%		
12	TYPE OF REPORT		
	PN		
<u> </u>	†		

	†		
1	NAME OF REPORTING PERSON		
	BVF Partne		
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
	Cayman Isl		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		390,152	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		390,152	
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	200.15-		
	390,152		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)	
	T 3		
- 12	Less than 1		
12	TYPE OF REPOR	RTING PERSON	
	CO		

1	NAME OF REPOR	TING PERSON		
1	NAME OF REPORTING PERSON			
	BVF Partners 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 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH		Similar Former on En		
REPORTING		5,512,994		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		STRINGS SIGNATURE TO WER		
		5,512,994		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	E E12 004			
10	5,512,994	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П	
10	CHECK BOX II 11	THE PRODUCTION OF THE PRODUCTI		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	7.5%			
12	TYPE OF REPORT	TING PERSON		
12	I I I L OI KEI OKI	11.01 ER0011		
	PN, IA			

1	NAME OF REPOR	TING PERSON	
	BVF Inc.		
2	CHECK THE APPE	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
			(0) □
3	SEC USE ONLY		
	CIETALNICHID OD	NI A CE OF OR CANIZATION	
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER	
EACH	0	SHARED VOTING FOWER	
REPORTING		5,512,994	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		STATES STOTES TO THE STATES OF	
		5,512,994	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	5,512,994		
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DEDCENT OF CLA	CC DEDDECEMEED DV AMOUNT IN DOW (0)	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	7.5%		
12	TYPE OF REPORTING PERSON		
	CO		
	CO		

1	NAME OF REPOR	TING PERSON		
	Mark N. Lampert			
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠	
_			(b) □	
	CECTICE ONLY			
3	SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
	United States			
NUMBER OF	5	SOLE VOTING POWER		
SHARES BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING PERSON WITH	7	5,512,994 SOLE DISPOSITIVE POWER		
I ERSON WITH	,	SOLE DISPOSITIVE FOWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		5,512,994		
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	5,512,994			
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	-	
	7.50/			
12	7.5% TYPE OF REPORT	TING PERSON		
	IN			

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, Massachusetts 02494

Name of Person Filing Item 2(a).

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

Biotechnology Value Fund II, L.P. ("BVF2")

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 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."

CUSIP NO. 9	923370	C104	
Item 2(d).	Title	of Class	of Securities:
	Comr	non Sto	ck, \$0.0001 par value (the "Shares")
Item 2(e).	CUSI	P Numl	per:
	92337	7C104	
Item 3.	If Thi	s Staten	nent 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).

Item 4. Ownership

(k)

(a) Amount beneficially owned:

//

As of the close of business on May 20, 2019 (i) BVF beneficially owned 2,710,775 Shares, (ii) BVF2 beneficially owned 2,194,114 Shares, and (iii) Trading Fund OS beneficially owned 390,152 Shares.

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-

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 390,152 Shares beneficially owned by Trading Fund OS.

1(b)(1)(ii)(J), please specify the type of institution:

Partners, as the general partner of BVF, BVF2, the investment manager of Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 5,512,994 Shares beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and a certain Partners managed account (the "Partners Managed Account"), including 217,953 Shares held in the Partners Managed Account.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 5,512,994 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 5,512,994 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. Partners OS disclaims beneficial ownership of the Shares beneficially owned by Trading Fund OS. 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 73,876,939 Shares outstanding as of May 2, 2019, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on May 9, 2019.

As of the close of business on May 20, 2019 (i) BVF beneficially owned approximately 3.7% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 3.0% of the outstanding Shares, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding Shares, (iv) Partners OS may be deemed to beneficially own less than 1% of the outstanding Shares, and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 7.5% of the outstanding Shares (less than 1% of the outstanding Shares is 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.

Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF, BVF2, 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.

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: May 20, 2019

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF Partners L.P., its general partner

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

BIOTECHNOLOGY VALUE FUND II, L.P.

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

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

Joint Filing Agreement

The undersigned hereby agree that the Statement on Schedule 13G dated May 20, 2019 with respect to the shares of Common Stock of Verastem, Inc., and any further amendments thereto executed by each and any of the undersigned shall be filed on behalf of each of the undersigned pursuant to and in accordance with the provisions of Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended.

Dated: May 20, 2019

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF Partners L.P., its general partner

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

BIOTECHNOLOGY VALUE FUND II, L.P.

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

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