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)¹

MEI Pharma, Inc.
(Name of Issuer)
Common Stock, par value \$0.00000002 per share
(Title of Class of Securities)
55279B202
(CUSIP Number)
December 31, 2018
(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 <i>Notes</i>).

1 NAME OF REPORTING PERSON				
	Biotechnology Value Fund, L.P.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) \boxtimes			
			(b) □	
3	SEC USE ONLY			
	CITIZENCLUD	D. DI. A CE. OF OD CANUTATION		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	Delaware 5	SOLE VOTING POWER		
SHARES		SOLE VOTING TOWER		
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		2,197,347*		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		2.40=2.4=4		
	A CODECATE AN	2,197,347*		
9	AGGREGATE AL	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	2,197,347*			
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
10	CHECK BOX II	THE MOUNT OF MINOUS IN NOW (3) ENGLODES CENTAIN SHAKES		
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)		
	3.1%*			
12	TYPE OF REPOR	RTING PERSON		
	PN			

^{*} Includes 742,826 shares of Common Stock issuable upon the exercise of certain Warrants (as defined below in Item 4).

1	NAME OF BEDO	ADTINIC DEDCOM		
1	NAME OF REPORTING PERSON			
	Riotochnole	ogy Value Fund II, L.P.		
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
2	CHECK THE AP	PROPRIATE BOX IF A MEMIDER OF A GROUP	(a) ⊠ (b) □	
			(6) 🗀	
3	SEC USE ONLY			
4	CITIZENSHIP O	R PLACE OF ORGANIZATION		
	D 1			
NUMBER OF	Delaware 5	SOLE VOTING POWER		
SHARES	5	SOLE VOTING POWER		
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		1,654,970*		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
	8	0 shares SHARED DISPOSITIVE POWER		
	0	SHARED DISPOSITIVE POWER		
		1,654,970*		
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	1,654,970*			
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
11		Elico le		
	2.3%*			
12	TYPE OF REPOR	RTING PERSON		
	_			
	PN			

^{*} Includes 520,707 shares of Common Stock issuable upon the exercise of certain Warrants.

	+			
1	NAME OF REPORTING PERSON			
		ogy Value Trading Fund OS LP		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) (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		338,020*		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		338,020*		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	338,020*			
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
		· · ·		
11	PERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)		
		• • • • • • • • • • • • • • • • • • • •		
	Less than 19	%*		
12	TYPE OF REPOR	RTING PERSON		
	PN			

 $^{^{\}ast}$ Includes 124,074 shares of Common Stock is suable upon the exercise of certain Warrants.

1	NAME OF REPORTING PERSON			
	BVF Partners OS Ltd.			
2	CHECK THE APPROPRIATE 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		338,020*		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		200 0004		
	A CODECATE AN	338,020*		
9	AGGREGATE AL	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	220.020*			
10	338,020*			
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	DEDCENT OF C	LASS REPRESENTED BY AMOUNT IN ROW (9)		
11	I EKCENT OF CI	LAGO KLI KLOLITILD DI AMIOUNI IN KOW (3)		
	Less than 1	2/4*		
12	TYPE OF REPOR			
12	I I I I OI KEI OI			
	СО			

 $^{^{\}ast}$ Includes 124,074 shares of Common Stock is suable upon the exercise of certain Warrants.

	1			
1	NAME OF REPORTING PERSON			
	BVF Partne			
2	CHECK THE APPROPRIATE 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		4,518,861*		
PERSON WITH	7	SOLE DISPOSITIVE POWER	-	
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		4,518,861*		
9	AGGREGATE A	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
Ĭ				
	4,518,861*			
10		THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
10			_	
11	PERCENT OF CI	LASS REPRESENTED BY AMOUNT IN ROW (9)		
	6.2%*			
12	TYPE OF REPOR	RTING PERSON		
1-				
	PN, IA			
l .				

 $^{^{*}}$ Includes 1,540,153 shares of Common Stock issuable upon the exercise of certain Warrants.

1	NAME OF REPO	RTING PERSON		
-	TVINE OF REPORTING PERSON			
	BVF Inc.			
2	CHECK THE AP	(a) 🗵		
			(b) □	
3	SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
•				
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES		0.4		
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER		
EACH	0	SHARED VOTING FOWER		
REPORTING		4,518,861*		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
	8	0 shares SHARED DISPOSITIVE POWER		
	8	SHARED DISPOSITIVE POWER		
		4,518,861*		
9	AGGREGATE AI	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	4,518,861*	THE ACCRECATE AMOUNT IN POLICE PRODUCES CEPTAIN ON A PRODUCE OF THE PRODUCE OF TH		
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
		· · /		
	6.2%*			
12	TYPE OF REPOR	RTING PERSON		
	CO			

 $^{^{*}}$ Includes 1,540,153 shares of Common Stock is suable upon the exercise of certain Warrants.

1	NAME OF REPORTING PERSON			
	Mark N. Lampert			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠			
			(b) □	
3	SEC USE ONLY			
	CUERTERICIUS O	DIVACE OF ODC ANIZATION		
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION		
	United State			
NUMBER OF	5	SOLE VOTING POWER		
SHARES	3	SOLE VOTINGTOWER		
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING		4,518,861*		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		4.740.0044		
	A CODECATE A	4,518,861*		
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	4,518,861*			
10	4,518,861* CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
10	CHECK DOX II	THE MODILIGHTE MINOUTH IN NOW (3) ENGLODES CENTAIN SHAKES		
11	PERCENT OF CI	ASS REPRESENTED BY AMOUNT IN ROW (9)	_	
	6.2%*			
12	TYPE OF REPOR	RTING PERSON		
	IN			

 $[\]ensuremath{^*}$ Includes 1,540,153 shares of Common Stock is suable upon the exercise of certain Warrants.

Item 1(a). Name of Issuer:

MEI Pharma, Inc., a Delaware corporation (the "Issuer").

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

> 3611 Valley Centre Drive, Suite 500 San Diego, California 92130

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."

Item 2(d). Title of Class of Securities:

Common Stock, par value \$0.00000002 per share (the "Common Stock")

Item 2(e). CUSIP Number:

55279B202

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:

As of the close of business on December 31, 2018, the Reporting Persons held 1,540,153 Warrants exercisable for an aggregate of 1,540,153 shares of Common Stock (the "Warrants"). The 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 Securities Exchange Act of 1934, more than 9.99% of the number of shares of Common Stock then issued and outstanding (the "Beneficial Ownership Limitation"). Such Warrants have an initial exercise price of \$2.54 per share, subject to adjustment pursuant to the terms of the Warrants. As of the close of business on December 31, 2018, the Beneficial Ownership Limitation does not limit the exercise of the Warrants by the Reporting Persons.

As of the close of business on December 31, 2018 (i) BVF beneficially owned 2,197,347 shares of Common Stock, including 742,826 shares of Common Stock issuable upon the exercise of certain Warrants, (ii) BVF2 beneficially owned 1,654,970 shares of Common Stock, including 520,707 shares of Common Stock issuable upon the exercise of certain Warrants and (iii) Trading Fund OS beneficially owned 338,020 shares of Common Stock, including 124,074 shares of Common Stock issuable upon the exercise of certain Warrants.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 338,020 shares of Common Stock beneficially owned by Trading Fund OS.

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 4,518,861 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, Trading Fund OS, and certain Partners managed accounts (the "Partners Managed Accounts"), including 328,524 shares of Common Stock, which includes 152,546 shares of Common Stock issuable upon the exercise of certain Warrants, held in the Partners Managed Accounts.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 4,518,861 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 4,518,861 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. Partners OS disclaims beneficial ownership of the shares of Common Stock beneficially owned by Trading Fund OS. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2, Trading Fund OS, and 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) 71,125,444 shares of Common Stock outstanding, as of November 6, 2018, 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 (the "SEC") on November 8, 2018 and (ii) certain or all of the 1,540,153 shares of Common Stock underlying certain Warrants, as applicable.

As of the close of business on December 31, 2018 (i) BVF beneficially owned approximately 3.1% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 2.3% of the outstanding shares of Common Stock, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding shares of Common Stock, (iv) Partners OS may be deemed to beneficially own less than 1% of the outstanding shares of Common Stock, and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 6.2% 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.

Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the shares of Common Stock beneficially owned by BVF, BVF2, 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 the Schedule 13G filed by the Reporting Persons with the Securities and Exchange Commission on May 29, 2018.

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certifications.

By signing below each of the undersigned certifies that, to the best of its knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: February 14, 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