FATE THERAPEUTICS INC Form SC 13G December 01, 2016

#### 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

Fate Therapeutics, Inc. (Name of Issuer)

Common stock, par value \$0.001 per share (Title of Class of Securities)

31189P 10 2 (CUSIP Number)

November 21, 2016 (Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- x Rule 13d-1(c)
- o Rule 13d-1(d)

The information required in 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).

<sup>1</sup> 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 the disclosures provided in a prior cover page.

#### CUSIP NO. 31189P 10 2

1

2	Biotechnology Value Fund, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY			(a) x (b) o	
4	CITIZENSHIP	OR PLACE OF	ORGANIZATION		
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER		
BENEFICIALLY OWNED BY EACH	•	6	0 shares SHARED VOTING POWER		
REPORTING PERSON WITH		7	1,715,611 SOLE DISPOSITIVE POWER		
		8	0 shares SHARED DISPOSITIVE POWE	ER.	
9	1,715,611 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
10	1,715,611 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES				
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)	
12	4.2% TYPE OF REPORTING PERSON				
	PN				
2					

#### CUSIP NO. 31189P 10 2

1

2 3	Biotechnology Value Fund II, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP	OR PLACE OF	ORGANIZATION	
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY	,	6	0 shares SHARED VOTING POWER	
EACH REPORTING PERSON WITH		7	1,105,088 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	ER
9	AGGREGATE	AMOUNT BEN	1,105,088 EFICIALLY OWNED BY EACH	REPORTING PERSON
10		IF THE AGGREG ERTAIN SHARE	JATE AMOUNT IN ROW (3)	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	2.7% TYPE OF REPORTING PERSON			
	PN			
3				

#### CUSIP NO. 31189P 10 2

1

2 3 4	Biotechnology Value Trading Fund OS LP CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION			(a) x (b) o	
NUMBER OF SHARES	Cayman Islands	s 5	SOLE VOTING POWER		
BENEFICIALLY OWNED BY	•	6	0 shares SHARED VOTING POWER		
EACH REPORTING PERSON WITH		7	331,022 SOLE DISPOSITIVE POWER		
		8	0 shares SHARED DISPOSITIVE POWE	R	
9	331,022 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
10	331,022 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  Less than 1% TYPE OF REPORTING PERSON				
11				(9)	
12					
	PN				
1					

#### CUSIP NO. 31189P 10 2

1

1	NAME OF REPORTING PE	RSON		
2	BVF Partners OS Ltd.  CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) x (b) o  SEC USE ONLY			
3				
4	CITIZENSHIP OR PLACE O	OF ORGANIZATION		
	Cayman Islands			
NUMBER OF SHARES	5	SOLE VOTING POWER		
BENEFICIALLY	•	0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH		221 022		
REPORTING PERSON WITH	7	331,022 SOLE DISPOSITIVE POWER		
TERSON WITH	1	SOLE DISTOSTITVE TOWER		
		0 shares		
	8	SHARED DISPOSITIVE POWE	CR .	
		221 022		
9	AGGREGATE AMOUNT B	331,022 ENEFICIALLY OWNED BY EACH	REPORTING PERSON	
	331,022			
10		REGATE AMOUNT IN ROW (9)		
	EXCLUDES CERTAIN SHA			
11	PERCENT OF CLASS REPR	RESENTED BY AMOUNT IN ROW	(9)	
	Less than 1%			
12	TYPE OF REPORTING PER	RSON		
	CO			
5				

#### CUSIP NO. 31189P 10 2

1

2 3	BVF Partners L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP	OR PLACE OF	ORGANIZATION	
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	7	6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	3,759,398 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	ER
9	AGGREGATE	AMOUNT BEN	3,759,398 EFICIALLY OWNED BY EACH	REPORTING PERSON
10	3,759,398 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	9.1% TYPE OF REP	ORTING PERSO	ON	
	PN, IA			
6				

#### CUSIP NO. 31189P 10 2

1

2 3	BVF Inc. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY			(a) x (b) o
4	CITIZENSHIP	OR PLACE OF	ORGANIZATION	
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH		6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	3,759,398 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	ER
9	3,759,398 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
10	3,759,398 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES			
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
9.1% 12 TYPE OF REPORTING PERSON				
	CO			
7				

#### CUSIP NO. 31189P 10 2

1

1	TVINL OF KE	ORTHOTERS		
2	Mark N. Lampert CHECK THE APPROPRIATE BOX IF A MEMBER OF A  (a) x			
3	GROUP SEC USE ONL	Υ		(b) o
4	CITIZENSHIP	OR PLACE OF (	ORGANIZATION	
	United States			
NUMBER OF SHARES	omed states	5	SOLE VOTING POWER	
BENEFICIALLY	•		0 shares	
OWNED BY		6	SHARED VOTING POWER	
EACH				
REPORTING		7	3,759,398	
PERSON WITH		7	SOLE DISPOSITIVE POWER	
			0 shares	
		8	SHARED DISPOSITIVE POWE	R
9	A CODEC ATE	A MOLINIE DENI	3,759,398	DEDODEING DEDGON
9	AGGREGATE	AMOUNT BEN	EFICIALLY OWNED BY EACH	REPORTING PERSON
	3,759,398			
10	, ,	IF THE AGGREC	GATE AMOUNT IN ROW (9)	
	EXCLUDES C	ERTAIN SHARE	ES	
				(0)
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
	9.1%			
12		ORTING PERSO	ON	
	IN			
8				

CUSIP NO. 31189P 10 2

Item 1(a). Name of Issuer:

Fate Therapeutics, Inc., a Delaware corporation (the "Issuer").

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

3535 General Atomics Court, Suite 200

San Diego, CA 92121

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")

1 Sansome Street, 30th Floor

San Francisco, California 94104

Citizenship: Delaware

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

1 Sansome Street, 30th 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")

1 Sansome Street, 30th Floor

San Francisco, California 94104

Citizenship: Delaware

BVF Inc.

1 Sansome Street, 30th Floor

San Francisco, California 94104

Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert")

1 Sansome Street, 30th 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."

CUSII	P NO. 31189F	10 2	
Item 2	2(d).		Title of Class of Securities:
Comm	non stock, par	value \$0.001 per s	share (the "Common Stock")
Item 2	2(e).		CUSIP Number:
31189	PP 10 2		
Item 3	3. If This State	ment is Filed Purs	uant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:
/x/	Not applic	able.	
	(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)	// Ins	urance company as defined in Section 3(a)(19) of the Exchange Act.
	(d) /	/ Investmen	at 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 ber	nefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).
	(g) //	A parent holding	g company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).
	(h) //	A savings asso	ociation as defined in Section 3(b) of the Federal Deposit Insurance Act.
	A church plan Investment Co		from the definition of an investment company under Section 3(c)(14) of the
	(j)	//	Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
	•		e $240.13d-1(b)(1)(ii)(K)$ . If filing as a non-U.S. institution in accordance with use specify the type of institution:
Item 4	1.		Ownership
		(a)	Amount beneficially owned:
			aber 1, 2016 (i) BVF beneficially owned 1,715,611 shares of Common Stock, 088 shares of Common Stock, and (iii) Trading Fund OS beneficially owned

Partners OS as the general partner of Trading Fund OS may be deemed to beneficially own the 331,022 shares of Common Stock beneficially owned by Trading Fund OS.

331,022 shares of Common Stock.

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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 3,759,398 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 607,677 shares of Common Stock held in the Partners Managed Accounts.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 3,759,398 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 3,759,398 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 41,384,991 shares of Common Stock outstanding as disclosed in Exhibit 10.1 to the Issuer's Current Report on Form 8-K filed with the Securities and Exchange Commission on November 22, 2016.

As of the close of business on December 1, 2016 (i) BVF beneficially owned approximately 4.2% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 2.7% 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 9.1% of the outstanding shares of Common Stock (approximately 1.5% of which is held in the Partners Managed Accounts).

(c	) [	Number of	t shares a	is to wl	hich suc	h person l	has:
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(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.

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(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.
	Mr. Lampert share voting and dispositive power over the shares of Common Stock F, BVF2, Trading Fund OS, and the Partners Managed Accounts.
Item Identification and Co. Holding Company of	Classification of the Subsidiary That Acquired the Security Being Reported on by the Parent 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.

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#### **SIGNATURE**

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

Dated: December 1, 2016

BIOTECHNOLOGY VALUE FUND, L.P.

BVF INC.

By: BVF Partners L.P., its general

partner

By: BVF Inc., its general partner By: /s/ Mark N. Lampert

Mark N. Lampert

By: /s/ Mark N. Lampert President

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