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INFINITY PHARMACEUTICALS, INC. Form SC 13G/A February 14, 2018 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. 2) ¹
Infinity Pharmaceuticals, Inc. (Name of Issuer)
Common Stock, \$0.001 par value (Title of Class of Securities)
45665G 30 3 (CUSIP Number)
December 31, 2017 (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*).

1	NAME OF I PERSON	REPORTING
2	Biotechn Fund, L.I CHECK TH APPROPRL BOX IF A MEMBER O GROUP	E ATE (a)
3	SEC USE O	
4	CITIZENSH OF ORGAN	IIP OR PLACE IIZATION
	Delaware	e
NUMBER OF	5	SOLE VOTING POWER
SHARES BENEFICIALLY		0 shares
OWNED BY	6	SHARED VOTING POWER
EACH REPORTING		4,509,785
PERSON WITH	7	SOLE DISPOSITIVE POWER
	8	0 shares SHARED DISPOSITIVE POWER
9	BENEFICIA	4,509,785 TE AMOUNT ALLY OWNED REPORTING
10	4,509,78. CHECK BO THE AGGR AMOUNT I	X IF EGATE

(9) EXCLUDES CERTAIN SHARES

PERCENT OF CLASS 11 REPRESENTED BY AMOUNT IN ROW (9)

8.9%

12 TYPE OF REPORTING

PERSON

PN

CUSIP No. 45665G 30 3

1	NAME OF REPORTING PERSON	
2	Biotechn II, L.P. CHECK TH APPROPRIA BOX IF A MEMBER O GROUP	ATE (a)
		(0)
3	SEC USE O	NLY
4	CITIZENSH OF ORGAN	IIP OR PLACE IZATION
	Delaware	<u>,</u>
NUMBER OF	5	SOLE VOTING POWER
SHARES		
BENEFICIALLY		0 shares SHARED
OWNED BY	6	VOTING POWER
EACH		
REPORTING		2,968,487
PERSON WITH	7	SOLE DISPOSITIVE POWER
		0 shares
		SHARED
	8	DISPOSITIVE POWER
		2,968,487
	AGGREGA'	TE AMOUNT
9		LLY OWNED
•	BY EACH F PERSON	REPORTING
	2,968,48	7
10	CHECK BO	
	THE AGGR	
	AMOUNT I	
	(9) EXCLUI	DES

CERTAIN

SHARES

PERCENT OF CLASS 11 REPRESENTED BY AMOUNT IN ROW (9)

5.9%

12 TYPE OF REPORTING

PERSON

PN

1	NAME OF PERSON	REPORTING
2		ATE (a) OF A
3	SEC USE O	(b) ONLY
4	CITIZENSI OF ORGAN	HIP OR PLACE
	Cayman	Islands
NUMBER OF	5	SOLE VOTING POWER
SHARES BENEFICIALLY	7	0 shares
OWNED BY	6	SHARED VOTING POWER
EACH REPORTING		790,583
PERSON WITH	7	SOLE DISPOSITIVE POWER
	8	0 shares SHARED DISPOSITIVE POWER
9	BENEFICIA	790,583 TE AMOUNT ALLY OWNED REPORTING
10	790,583 CHECK BC THE AGGR	

AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

PERCENT OF CLASS 11 REPRESENTED BY AMOUNT IN ROW (9)

1.6%

TYPE OF REPORTING

12 PERSON

PN

1	NAME OF PERSON	REPORTING
2	BVF Par CHECK TH APPROPRI BOX IF A MEMBER O GROUP	ATE (a) OF A
		(b)
3	SEC USE O	NLY
4	CITIZENSI OF ORGAN	HIP OR PLACE NIZATION
	Cayman	Islands
		SOLE
NUMBER OF	5	VOTING
SHARES		POWER
BENEFICIALLY	7	0 shares
		SHARED
OWNED BY	6	VOTING
EACH		POWER
REPORTING		790,583
REFORTE (O		SOLE
PERSON WITH	7	DISPOSITIVE
		POWER
	8	0 shares SHARED DISPOSITIVE POWER
		790,583
		TE AMOUNT
9	-	ALLY OWNED
	PERSON	REPORTING
	700 502	
10	790,583 CHECK BC	X IF
10	THE AGGR	
	AMOUNT 1	IN ROW

(9) EXCLUDES CERTAIN SHARES

PERCENT OF CLASS
REPRESENTED BY
AMOUNT IN ROW (9)

1.6%

12 TYPE OF REPORTING

PERSON

CO

1	NAME OF REPORTING PERSON	
2	BVF Par CHECK TH APPROPRL BOX IF A MEMBER O GROUP	ATE (a) DF A
		(b)
3	SEC USE O	NLY
4	CITIZENSH OF ORGAN	IIP OR PLACE IIZATION
	Delaware	2
NUMBER OF	5	SOLE VOTING POWER
SHARES BENEFICIALLY	,	0 shares SHARED
OWNED BY	6	VOTING POWER
EACH REPORTING		9,766,508
PERSON WITH	7	SOLE DISPOSITIVE POWER
	8	0 shares SHARED DISPOSITIVE POWER
9	BENEFICIA	9,766,508 TE AMOUNT ALLY OWNED REPORTING
10	9,766,50 CHECK BO THE AGGR AMOUNT I	X IF EGATE

(9) EXCLUDES

CERTAIN SHARES

PERCENT OF CLASS 11 REPRESENTED BY AMOUNT IN ROW (9)

19.3%

12 TYPE OF REPORTING PERSON

PN, IA

1	NAME OF I PERSON	REPORTING
2	BVF Inc CHECK TH APPROPRI BOX IF A MEMBER O GROUP	E ATE (a)
3	SEC USE O	NLY
4	CITIZENSH OF ORGAN	IIP OR PLACE IIZATION
	Delaware	e
NUMBER OF	5	SOLE VOTING POWER
SHARES BENEFICIALLY	•	0 shares
OWNED BY	6	SHARED VOTING POWER
EACH REPORTING		9,766,508
PERSON WITH	7	SOLE DISPOSITIVE POWER
	8	0 shares SHARED DISPOSITIVE POWER
9	BENEFICIA	9,766,508 TE AMOUNT ALLY OWNED REPORTING
10	9,766,50 CHECK BO THE AGGR AMOUNT I	X IF EGATE

(9) EXCLUDES

CERTAIN SHARES

PERCENT OF CLASS 11 REPRESENTED BY AMOUNT IN ROW (9)

19.3%

12 TYPE OF REPORTING PERSON

CO

1	NAME OF I PERSON	REPORTING
2	Mark N. CHECK TH APPROPRI BOX IF A MEMBER (GROUP	ATE (a) OF A
		(b)
3	SEC USE O	NLY
4	CITIZENSH OF ORGAN	HIP OR PLACE HIZATION
	United S	tates
NUMBER OF	5	SOLE VOTING POWER
SHARES BENEFICIALLY	•	0 shares
OWNED BY	6	SHARED VOTING POWER
EACH REPORTING		9,766,508
PERSON WITH	7	SOLE DISPOSITIVE POWER
	8	0 shares SHARED DISPOSITIVE POWER
9	BENEFICIA	9,766,508 TE AMOUNT ALLY OWNED REPORTING
10	9,766,50 CHECK BO THE AGGR AMOUNT I (9) EXCLU	X IF EGATE IN ROW

CERTAIN SHARES

PERCENT OF CLASS 11 REPRESENTED BY AMOUNT IN ROW (9)

19.3%

12 TYPE OF REPORTING PERSON

IN

CUSIP No. 45665G 30 3

Item 1(a). Name of Issuer:

Infinity Pharmaceuticals, Inc., a Delaware corporation (the "Issuer").

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

784 Memorial Drive

Cambridge, Massachusetts 02139

Item 2(a). Name of Person Filing

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, 30 th Floor
San Francisco, California 94104
Citizenship: Delaware
Mark N. Lampert ("Mr. Lampert")
1 Sansome Street, 30 th 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. 45665G 30 3

Item 2(d).	Title of Class of Securities:
Common Stock, \$0.001 par value (the "Common Stock	.")
Item 2(e).	CUSIP Number:
45665G 30 3	
	1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:
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 th	ne Exchange Act.
(b)// Bank as defined in Section 3(a)(6) of the Exchange	ge Act.
(c)// Insurance company as defined in Section 3(a)(19)) of the Exchange Act.
(d)// Investment company registered under Section 8 o	of the Investment Company Act.
(e)// An investment adviser in accordance with Rule 1	3d-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 ac	ecordance with Rule 13d-1(b)(1)(ii)(G).
(h)// A savings association as defined in Section 3(b) of	of the Federal Deposit Insurance Act.
(i) // A church plan that is excluded from the definition Investment Company Act.	n of an investment company under Section 3(c)(14) of the
(j) // Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
(k)// Group, in accordance with Rule 240.13d-1(b)(1)(Rule 240.13d-1(b)(1)(ii)(J), please specify the type	ii)(K). If filing as a non-U.S. institution in accordance with be of institution:

Item 4. Ownership

(a) Amount beneficially owned:

As of the close of business on December 31, 2017 (i) BVF beneficially owned 4,509,785 shares of Common Stock, (ii) BVF2 beneficially owned 2,968,487 shares of Common Stock, and (iii) Trading Fund OS beneficially owned 790,583 shares of Common Stock.

Partners OS as the general partner of Trading Fund OS may be deemed to beneficially own the 790,583 shares of Common Stock beneficially owned by Trading Fund OS.

CUSIP No. 45665G 30 3

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 9,766,508 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 1,497,653 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 9,766,508 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 9,766,508 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 50,711,433 shares of Common Stock outstanding as of November 2, 2017, as disclosed in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2017.

As of the close of business on December 31, 2017 (i) BVF beneficially owned approximately 8.9% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 5.9% of the outstanding shares of Common Stock, (iii) Trading Fund OS beneficially owned 1.6% of the outstanding shares of Common Stock (iv) Partners OS may be deemed to beneficially own 1.6% of the outstanding shares of Common Stock, and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 19.3% of the outstanding shares of Common Stock (approximately 3.0% of which is held in the Partners Managed Accounts).

(c) Number of shares as to which such person has:

Edgar Filing: INFINITY PHARMACEUTICALS, INC. - Form SC 13G/A (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.

CUSIP No. 45665G 30 3		
(iv)	Shared power to dispose or to direct the disposition of	
See Cover Pages Items 5	9.	
Iten	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 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 See	chedule 13G filed with the Securities and Exchange Commission on June 24, 2016.	
	Item 9. Notice of Dissolution of Group.	
Not Applicable.		

Certifications.

Item 10.

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.

CUSIP No. 45665G 30 3

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.

BVF INC.

Dated: February 14, 2018

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

By:/s/ Mark N. Lampert

Mark N. Lampert President

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