

INFINITY PHARMACEUTICALS, INC.

Form SC 13D

April 12, 2018

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D

(Rule 13d-101)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT

TO § 240.13d-1(a) AND AMENDMENTS THERETO FILED PURSUANT TO

§ 240.13d-2(a)

(Amendment No.)¹

Infinity Pharmaceuticals, Inc.

(Name of Issuer)

Common Stock, \$0.001 par value

(Title of Class of Securities)

45665G303

(CUSIP Number)

JAMES KRATKY

BVF Partners L.P.

1 Sansome Street, 30th Floor

San Francisco, California 94104

(415) 525-8890

ADAM W. FINERMAN, ESQ.

OLSHAN FROME WOLOSKY LLP

1325 Avenue of the Americas

New York, New York 10019

(212) 451-2300

(Name, Address and Telephone Number of Person

Authorized to Receive Notices and Communications)

April 10, 2018

(Date of Event Which Requires Filing of This Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box .

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. *See* § 240.13d-7 for other parties to whom copies are to be sent.

1 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*).

CUSIP No. 45665G303

1 NAME OF REPORTING PERSON

BIOTECHNOLOGY VALUE
FUND, L.P.

2 CHECK THE
APPROPRIATE BOX IF (a)
A MEMBER OF A
GROUP (b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

WC
CHECK BOX IF
DISCLOSURE OF
LEGAL
5 PROCEEDINGS IS
REQUIRED
PURSUANT TO ITEM
2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF
ORGANIZATION

DELAWARE

NUMBER OF	7	SOLE VOTING POWER
SHARES BENEFICIALLY		- 0 -
OWNED BY	8	SHARED VOTING POWER
EACH REPORTING		5,285,341
PERSON WITH	9	SOLE DISPOSITIVE POWER
		- 0 -
	10	SHARED DISPOSITIVE POWER
		5,285,341

11

AGGREGATE AMOUNT
BENEFICIALLY OWNED BY
EACH REPORTING PERSON

5,285,341

12 CHECK BOX IF THE
AGGREGATE
AMOUNT IN ROW (11)
EXCLUDES CERTAIN
SHARES

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

14 10.2%
TYPE OF REPORTING PERSON

PN

CUSIP No. 45665G303

1 NAME OF REPORTING PERSON

BIOTECHNOLOGY VALUE
FUND II, L.P.

2 CHECK THE
APPROPRIATE BOX IF (a)
A MEMBER OF A
GROUP (b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

WC
CHECK BOX IF
DISCLOSURE OF
LEGAL
5 PROCEEDINGS IS
REQUIRED
PURSUANT TO ITEM
2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF
ORGANIZATION

DELAWARE

NUMBER OF 7 SOLE VOTING
SHARES BENEFICIALLY POWER

- 0 -

OWNED BY 8 SHARED
EACH REPORTING VOTING
POWER

3,543,041

PERSON WITH 9 SOLE
DISPOSITIVE
POWER

- 0 -

10 SHARED
DISPOSITIVE
POWER

3,543,041

11

AGGREGATE AMOUNT
BENEFICIALLY OWNED BY
EACH REPORTING PERSON

3,543,041

12 CHECK BOX IF THE
AGGREGATE
AMOUNT IN ROW (11)
EXCLUDES CERTAIN
SHARES

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

14 6.8%
TYPE OF REPORTING PERSON

PN

CUSIP No. 45665G303

1 NAME OF REPORTING PERSON

BIOTECHNOLOGY VALUE TRADING FUND OS LP

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

5 WC CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	CAYMAN ISLANDS SOLE VOTING POWER
		- 0 -
	8	SHARED VOTING POWER
		950,473
	9	SOLE DISPOSITIVE POWER
		- 0 -
	10	SHARED DISPOSITIVE POWER

950,473

11 AGGREGATE AMOUNT
BENEFICIALLY OWNED BY
EACH REPORTING PERSON

950,473

12 CHECK BOX IF THE
AGGREGATE
AMOUNT IN ROW (11)
EXCLUDES CERTAIN
SHARES

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

1.8%

14 TYPE OF REPORTING
PERSON

PN

CUSIP No. 45665G303

1 NAME OF REPORTING PERSON

BVF PARTNERS OS LTD.

2 CHECK THE APPROPRIATE BOX IF A MEMBER (a) OF A GROUP

(b)

3 SEC USE ONLY

4 SOURCE OF FUNDS

AF

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

CAYMAN ISLANDS

NUMBER OF 7 SOLE VOTING POWER

SHARES BENEFICIALLY - 0 -

OWNED BY 8 SHARED VOTING POWER

EACH REPORTING 950,473

PERSON WITH 9 SOLE DISPOSITIVE POWER

- 0 -

10 SHARED DISPOSITIVE POWER

950,473

11

AGGREGATE AMOUNT
BENEFICIALLY OWNED
BY EACH REPORTING
PERSON

950,473

12

CHECK BOX IF
THE AGGREGATE
AMOUNT IN ROW
(11) EXCLUDES
CERTAIN SHARES

13

PERCENT OF CLASS
REPRESENTED BY
AMOUNT IN ROW (11)

1.8%

14

TYPE OF REPORTING
PERSON

CO

5

CUSIP No. 45665G303

1	NAME OF REPORTING PERSON
	BVF PARTNERS L.P.
2	CHECK THE APPROPRIATE BOX IF A MEMBER (a) OF A GROUP (b)
3	SEC USE ONLY
4	SOURCE OF FUNDS
	AF
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)
6	CITIZENSHIP OR PLACE OF ORGANIZATION
	DELAWARE
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7 SOLE VOTING POWER
	- 0 -
8	SHARED VOTING POWER
	11,276,508
9	SOLE DISPOSITIVE POWER
	- 0 -
10	SHARED DISPOSITIVE POWER
	11,276,508

11 AGGREGATE AMOUNT
BENEFICIALLY OWNED BY
EACH REPORTING PERSON

11,276,508

12 CHECK BOX IF
THE AGGREGATE
AMOUNT IN ROW
(11) EXCLUDES
CERTAIN SHARES