### **BVF PARTNERS L P/IL**

Form 4

Common

Stock, \$0.001 par

December 17, 20	)18											
FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION										OMB APPROVAL		
	Washington, D.C. 20549								OMB Number:	3235-0287		
Check this bo if no longer subject to Section 16. Form 4 or		STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES								January 31, 2005 verage rs per 0.5		
Form 4 or Form 5 obligations may continue.  See Instruction 1(b).  Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940												
(Print or Type Responses)												
BVF PARTNERS L P/IL Symbol					d Ticker or		آ I	5. Relationship of Reporting Person(s) to Issuer				
		INFINITY PHARMACEUTICALS, INC. [INFI]							eck all applicable)			
(Last)	(First) (	of Earliest T Day/Year)	ransaction		- - 1.	DirectorX10% Owner Officer (give title Other (specify						
44 MONTGOMERY 12/13/2018 STREET, 40TH FLOOR												
Filed(Month/Day/Year)  Applicable Line)  Form filed b  X_ Form filed b  X_ Form filed b						Applicable Line) Form filed by On _X_ Form filed by M	One Reporting Person More than One Reporting					
(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									y Owned			
	ransaction Date nth/Day/Year)	Execution any	Deemed 3. 4. Sution Date, if Transaction I			s Acqual of (E) and 5)	uired (A)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Common				Code V	Amount	or (D)	Price	(Instr. 3 and 4)				
Stock	13/2018			P	54,461	A	\$ 1.1995	8,485,575	D (2)			
Common Stock, \$0.001 par value (1)	13/2018			P	120,539	A	\$ 1.1995	6,631,136	D (3)			

1,254,993

D (4)

value (1)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1474 (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (Instr.		5. mNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		ate	Amou Unde Secur	rlying	8. Price of Derivative Security (Instr. 5)
				Code	V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	

# **Reporting Owners**

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				
BVF PARTNERS L P/IL 44 MONTGOMERY STREET 40TH FLOOR SAN FRANCISCO, CA 94104		X						
BIOTECHNOLOGY VALUE FUND L P 44 MONTGOMERY STREET 40TH FLOOR SAN FRANCISCO, CA 94104		X						
BIOTECHNOLOGY VALUE FUND II LP 44 MONTGOMERY STREET 40TH FLOOR SAN FRANCISCO, CA 94104		X						
Biotechnology Value Trading Fund OS LP P.O. BOX 309 UGLAND HOUSE GRAND CAYMAN, E9 KY1-1104				See Explanation of Responses				
BVF Partners OS Ltd. P.O. BOX 309 UGLAND HOUSE				See Explanation of Responses				

Reporting Owners 2

X

X

GRAND CAYMAN, E9 KY1-1104

**BVF INC/IL** 

44 MONTGOMERY STREET

40TH FLOOR SAN FRANCISCO, CA 94104

LAMPERT MARK N

**44 MONTGOMERY STREET** 

40TH FLOOR

SAN FRANCISCO, CA 94104

### **Signatures**

BVF Partners L.P., By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President					
**Signature of Reporting Person	Date				
Biotechnology Value Fund, L.P., By: BVF Partners L.P., its general partner, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	12/17/2018				
**Signature of Reporting Person	Date				
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, President	12/17/2018				
**Signature of Reporting Person	Date				
BVF Partners OS Ltd., By: BVF Partners L.P., its sole member, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	12/17/2018				
**Signature of Reporting Person	Date				
Biotechnology Value Trading Fund OS LP, By: BVF Partners L.P., its investment manager, BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	12/17/2018				
**Signature of Reporting Person	Date				
BVF Inc., By: /s/ Mark N. Lampert, President					
**Signature of Reporting Person	Date				
/s/ Mark N. Lampert	12/17/2018				

## **Explanation of Responses:**

- \* If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

\*\*Signature of Reporting Person

This Form 4 is filed jointly by Biotechnology Value Fund, L.P. ("BVF"), Biotechnology Value Fund II, L.P. ("BVF2"), Biotechnology Value Trading Fund OS LP ("Trading Fund OS"), BVF Partners OS Ltd. ("Partners OS"), BVF Partners L.P. ("Partners"), BVF Inc. and

12/17/2018

Date

- (1) Mark N. Lampert (collectively, the "Reporting Persons"). Each of the Reporting Persons is a member of a Section 13(d) group that collectively owns more than 10% of the Issuer's outstanding shares of Common Stock. Each of the Reporting Persons disclaims beneficial ownership of the securities reported herein except to the extent of his or its pecuniary interest therein.
- Securities owned directly by BVF. As the general partner of BVF, Partners may be deemed to beneficially own the securities owned directly by BVF. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the securities owned directly by BVF. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the securities owned directly by BVF.

Signatures 3

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- (3) Securities owned directly by BVF2. As the general partner of BVF2, Partners may be deemed to beneficially own the securities owned directly by BVF2. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the securities owned directly by BVF2. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the securities owned directly by BVF2.
  - Securities owned directly by Trading Fund OS. As the general partner of Trading Fund OS, Partners OS may be deemed to beneficially own the securities owned directly by Trading Fund OS. As the investment manager of Trading Fund OS and the sole member of Partners
- (4) OS, Partners may be deemed to beneficially own the securities owned directly by Trading Fund OS. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the securities owned directly by Trading Fund OS. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the securities owned directly by Trading Fund OS.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.