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

Form 4

November 21, 2018

FORM 4		OMB AP	PROVAL
	UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549	OMB Number:	3235-0287
Check this box if no longer	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF	Expires:	January 31, 2005
subject to Section 16.	CECHDITHE	Estimated avburden hour	
Form 4 or		response	0.5
Form 5	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,		
obligations may continue.	Section 17(a) of the Public Utility Holding Company Act of 1935 or Section		
See Instruction	30(h) of the Investment Company Act of 1940		

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person *BVF PARTNERS L P/IL			2. Issuer Name <b>and</b> Ticker or Trading Symbol INFINITY PHARMACEUTICALS, INC. [INFI]				I	5. Relationship of Reporting Person(s) to Issuer  (Check all applicable)			
(Last) 44 MONT		(Middle)		of Earliest T Day/Year) 2018	ransaction		_ b	Director Officer (give ti	_X 10% ttle Othe below)	Owner r (specify	
STREET,	40TH FLOOR										
	(Street)		4. If Am	endment, D	ate Original		6	. Individual or Joi	nt/Group Filin	g(Check	
SAN FRA	04	Filed(Month/Day/Year)				-	Applicable Line) Form filed by One Reporting Person _X_ Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	Tak	ole I - Non-	Derivative S	Securi	ties Acqui	red, Disposed of,	or Beneficiall	y Owned	
1.Title of Security (Instr. 3)	2. Transaction Date 2A. Deemed 3. 4. Securities Acquired (A) (Month/Day/Year) Execution Date, if Transactiom Disposed of (D) any Code (Instr. 3, 4 and 5) (Month/Day/Year) (Instr. 8)  (A) or		<b>)</b> )	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)					
_				Code V	Amount	(D)	Price	(Instr. 3 and 4)			
Common Stock, \$0.001 par value (1)	11/19/2018			P	733,151	A	\$ 1.3698	8,376,951	D (2)		
Common Stock, \$0.001 par value (1)	11/19/2018			P	556,709	A	\$ 1.3698	6,372,596	D (3)		
Common Stock, \$0.001 par	11/19/2018			P	81,648	A	\$ 1.3698	1,248,839	D (4)		

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value (1)							
Common Stock, \$0.001 par value (1)	11/19/2018	P	50,044	A	\$ 1.35	8,426,995	D (2)
Common Stock, \$0.001 par value (1)	11/19/2018	P	38,001	A	\$ 1.35	6,410,597	D (3)
Common Stock, \$0.001 par value (1)	11/19/2018	P	5,573	A	\$ 1.35	1,254,412	D (4)
Common Stock, \$0.001 par value (1)	11/21/2018	P	4,119	A	\$ 1.35	8,431,114	D (2)
Common Stock, \$0.001 par value (1)	11/21/2018	P	581	A	\$ 1.35	1,254,993	D (4)

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)

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	isable and	7. Title a	and	8. Price of	
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orNumber	Expiration Da	ate	Amount	of	Derivative	
Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)	of Derivative Securities Acquired (A) or Disposed of (D)		Year)	Underly Securitie (Instr. 3	es	Security (Instr. 5)	
					(Instr. 3, 4, and 5)	Date	Expiration	01	smount r		
				C = V	(A) (D)	Exercisable	Date	of			
				Code V	(A) (D)			S	hares		

9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

### **Reporting Owners**

Reporting Owner Name / Address	Relationships					
Reporting Owner Funder / Funders	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 GRAND CAYMAN, E9 KY1-1104				See Explanation of Responses		
BVF INC/IL 44 MONTGOMERY STREET 40TH FLOOR SAN FRANCISCO, CA 94104		X				
LAMPERT MARK N 44 MONTGOMERY STREET 40TH FLOOR SAN FRANCISCO, CA 94104		X				

# **Signatures**

BVF Partners L.P., By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	11/21/2018
**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	11/21/2018
**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	11/21/2018
**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	11/21/2018
**Signature of Reporting Person	Date

Reporting Owners 3

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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

11/21/2018

\*\*Signature of Reporting Person

Date

BVF Inc., By: /s/ Mark N. Lampert, President

11/21/2018

\*\*Signature of Reporting Person

Date

/s/ Mark N. Lampert

11/21/2018

\*\*Signature of Reporting Person

Date

### **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).
  - 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
- (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.
- 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.

Signatures 4