LAMPERT MARK N Form 3 December 02, 2016 FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 OM

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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

OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person <u>*</u> BVF PARTNERS L P/IL				2. Date of Event Requiring Statement(Month/Day/Year)		3. Issuer Name and Ticker or Trading Symbol INFINITY PHARMACEUTICALS, INC. [INFI]			
	(Last)	(First)	(Middle)	11/30/2016)	4. Relationshi Person(s) to Is	p of Reporting		5. If Amendment, Date Origina Filed(Month/Day/Year)
ONE SANSOME STREET, 30TH FLOOR						(Check all applicable)			- 100(11011112-24), 7002)
(Street)				DirectorX 10% Owner Officer Other (give title below) (specify below)			6. Individual or Joint/Group Filing(Check Applicable Line) Form filed by One Reporting		
SAN FRANCISCO, CA 94104								Person _X_ Form filed by More than One Reporting Person	
	(City)	(State)	(Zip)		Table I - N	lon-Derivat	ive Securiti	es Be	neficially Owned
	itle of Secur str. 4)	ity			2. Amount of Beneficially (Instr. 4)		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nat Owne (Instr.	*
Co	mmon Sto	ock, \$0.001	par value	(1)	2,757,369		D (2)	Â	
Common Stock, \$0.001 par value (1)				(1)	1,775,952		D <u>(3)</u>	Â	
Common Stock, \$0.001 par value (1)				(1)	532,393		D (4)	Â	
Ren	ninder: Repo	rt on a separa	te line for ea	ch class of secu	irities benefici	ally	FC 1473 (7-02)	

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.

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

1. Title of Derivative Security	2. Date Exercisable and	3. Title and Amount of	4.	5.	6. Nature of Indirect
(Instr. 4)	Expiration Date (Month/Day/Year)	Securities Underlying	Conversion	Ownership	Beneficial Ownership

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		Derivative Security (Instr. 4)		or Exercise Price of	Form of Derivative	(Instr. 5)
Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivative Security	Security: Direct (D) or Indirect (I) (Instr. 5)	

Reporting Owners

Reporting Owner Name / Address	Relationships				
	Director	10% Owner	Officer	Other	
BVF PARTNERS L P/IL ONE SANSOME STREET 30TH FLOOR SAN FRANCISCO, CA 94104	Â	X	Â	Â	
BIOTECHNOLOGY VALUE FUND L P ONE SANSOME STREET 30TH FLOOR SAN FRANCISCO, CA 94104	Â	Â	Â	See Explanation of Responses	
BIOTECHNOLOGY VALUE FUND II LP ONE SANSOME STREET 30TH FLOOR SAN FRANCISCO, CA 94104	Â	Â	Â	See Explanation of Responses	
Biotechnology Value Trading Fund OS LP P.O. BOX 309 UGLAND HOUSE GRAND CAYMAN, E9 KY1-1104	Â	Â	Â	See Explanation of Responses	
BVF Partners OS Ltd. P.O. BOX 309 UGLAND HOUSE GRAND CAYMAN, E9 KY1-1104	Â	Â	Â	See Explanation of Responses	
BVF INC/IL ONE SANSOME STREET 30TH FLOOR SAN FRANCISCO, CA 94104	Â	X	Â	Â	
LAMPERT MARK N ONE SANSOME STREET 30TH FLOOR SAN FRANCISCO, CA 94104	Â	ÂX	Â	Â	
Signatures					

BVF Partners L.P., By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	12/02/2016
**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	12/02/2016
**Signature of Reporting Person	Date
	12/02/2016

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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				
**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	12/02/2016			
**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				
**Signature of Reporting Person	Date			
BVF Inc., By: /s/ Mark N. Lampert, President				
**Signature of Reporting Person	Date			
/s/ Mark N. Lampert	12/02/2016			
**Signature of Reporting Person	Date			

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(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 3 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 shares of Common Stock reported herein except to the extent of his or its pecuniary interest therein.

(2) Shares of Common Stock owned directly by BVF. As the general partner of BVF, Partners may be deemed to beneficially own the shares of Common Stock owned directly by BVF. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the shares of Common Stock owned directly by BVF. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the shares of Common Stock owned directly by BVF.

(3) Shares of Common Stock owned directly by BVF2. As the general partner of BVF2, Partners may be deemed to beneficially own the shares of Common Stock owned directly by BVF2. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the shares of Common Stock owned directly by BVF2. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the shares of Common Stock owned directly by BVF2.

Shares of Common Stock owned directly by Trading Fund OS. As the general partner of Trading Fund OS, Partners OS may be deemed to beneficially own the shares of Common Stock owned directly by Trading Fund OS. As the investment manager of Trading Fund OS

(4) and the sole member of Partners OS, Partners may be deemed to beneficially own the shares of Common Stock owned directly by Trading Fund OS. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the shares of Common Stock owned directly by Trading Fund OS. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the shares of Common Stock 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.