INFINITY PHARMACEUTICALS, INC. Form SC 13G/A

February 09, 2010

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, par value \$0.001 per share (Title of Class of Securities)

45665G303 (CUSIP Number)

December 31, 2009 (Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- x Rule 13d-1(c)
- o Rule 13d-1(d)

The information required in 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 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 the disclosures provided in a prior cover page.

1	NAME OF REPORTING PERSON			
2 3	Biotechnology Value Fund, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF	Delaware	5	SOLE VOTING POWER	
SHARES BENEFICIALLY OWNED BY EACH		6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	587,908 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	587,908 EFICIALLY OWNED BY EACH	REPORTING PERSON
10	587,908 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	2.2% TYPE OF REPORTING PERSON			
	PN			
2				

Biotechnology Value Fund II, L.P.				
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a)	a) x b) o			
4 CITIZENSHIP OR PLACE OF ORGANIZATION	CITIZENSHIP OR PLACE OF ORGANIZATION			
Delaware NUMBER OF 5 SOLE VOTING POWER				
SHARES BENEFICIALLY 0 shares OWNED BY 6 SHARED VOTING POWER EACH				
REPORTING 407,000 PERSON WITH 7 SOLE DISPOSITIVE POWER				
0 shares 8 SHARED DISPOSITIVE POWER				
407,000 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH RE	EPORTING PERSON			
407,000 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) "			
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
1.6% 12 TYPE OF REPORTING PERSON				
PN				
3				

1	NAME OF REPORTING PERSON			
2	BVF Investments, L.L.C. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF	Delaware 5	SOLE VOTING POWER		
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6	0 shares SHARED VOTING POWER		
	7	1,410,000 SOLE DISPOSITIVE POWER		
	8	0 shares SHARED DISPOSITIVE POWE	R	
9	AGGREGATE AMOUNT BEN	1,410,000 IEFICIALLY OWNED BY EACH	REPORTING PERSON	
10	1,410,000 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	5.4% TYPE OF REPORTING PERSON			
	00			
4				

1	NAME OF REPORTING PERSON			
2 3	Investment 10, L.L.C. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	Illinois 5	SOLE VOTING POWER		
BENEFICIALLY OWNED BY EACH	6	0 shares SHARED VOTING POWER		
REPORTING PERSON WITH	7	168,000 SOLE DISPOSITIVE POWER		
	8	0 shares SHARED DISPOSITIVE POWE	ER	
9	AGGREGATE AMOUNT	168,000 BENEFICIALLY OWNED BY EACH	I REPORTING PERSON	
10	168,000 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	Less than 1% TYPE OF REPORTING PERSON			
	00			
5				

1	NAME OF REPORTING PERSON			
2 3	BVF Partners L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	,	6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	2,572,908 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	2,572,908 IEFICIALLY OWNED BY EACH	REPORTING PERSON
10	2,572,908 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	9.8% TYPE OF REPORTING PERSON			
6	PN, IA			

1	NAME OF REPORTING PERSON			
2	BVF Inc. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	•	6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	2,572,908 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	2,572,908 EFICIALLY OWNED BY EACH	REPORTING PERSON
10	2,572,908 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) " EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
12	9.8% TYPE OF REPORTING PERSON			
	CO			
7				

CUSIP NO. 45665G303

Mark N. Lampert

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

(b) o

- 3 SEC USE ONLY
- 4 CITIZENSHIP OR PLACE OF ORGANIZATION

United States