

INFINITY PHARMACEUTICALS, INC.
Form SC 13G
April 03, 2008

SECURITIES AND EXCHANGE COMMISSION
Washington, DC 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 13d-2(b)

INFINITY PHARMACEUTICALS, INC.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

45665G303

(CUSIP Number)

March 25, 2008

(Date of Event Which Requires Filing of this Statement)

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

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

*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.

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 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*).

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* 0

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

2.3%

12 TYPE OF REPORTING PERSON*

PN

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1 NAME OF REPORTING PERSON:
Biotechnology Value Fund II, L.P.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

(a) y
(b) o

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5 6 7 8	SOLE VOTING POWER 0 SHARED VOTING POWER 309,000 SOLE DISPOSITIVE POWER 0 SHARED DISPOSITIVE POWER 309,000
9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		

309,000

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* 0

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

1.6%

12 TYPE OF REPORTING PERSON*

PN

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1 NAME OF REPORTING PERSON:
BVF Investments, L.L.C.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

(a)

(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF	5	SOLE VOTING POWER
SHARES		0
BENEFICIALLY	6	SHARED VOTING POWER
OWNED		1,070,000
BY		
EACH	7	SOLE DISPOSITIVE POWER
REPORTING		0
PERSON		
WITH:	8	SHARED DISPOSITIVE POWER
		1,070,000

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY
EACH REPORTING PERSON

1,070,000

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) 0
EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN
ROW (9)

5.4%

12 TYPE OF REPORTING PERSON*

00

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1 NAME OF REPORTING PERSON:
Investment 10, L.L.C.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

(a)

(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Illinois

	5	SOLE VOTING POWER
NUMBER OF		0
SHARES		
BENEFICIALLY	6	SHARED VOTING POWER
OWNED		133,000
BY		
EACH	7	SOLE DISPOSITIVE POWER
REPORTING		0
PERSON		
WITH:	8	SHARED DISPOSITIVE POWER
		133,000

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

133,000

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* 0

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

.7%

12 TYPE OF REPORTING PERSON*

00

1,960,949

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* 0

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

9.9%

12 TYPE OF REPORTING PERSON*

PN, HC

1,960,949

10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* 0

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

9.9%

12 TYPE OF REPORTING PERSON*

CO, HC

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ITEM 1(a).

NAME OF ISSUER:

INFINITY PHARMACEUTICALS, INC. (Infinity)

ITEM 1(b).

ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:

780 Memorial Drive

Cambridge, MA 02139

ITEM 2(a).

NAME OF PERSON FILING:

This Schedule 13G is being filed on behalf of the following persons (the "Reporting Persons"):

- (i) Biotechnology Value Fund, L.P. ("BVF")
- (ii) Biotechnology Value Fund II, L.P. ("BVF2")
- (iii) BVF Investments, L.L.C. ("Investments")
- (iv) Investment 10, L.L.C. ("ILL10")
- (v) BVF Partners L.P. ("Partners")
- (vi) BVF Inc. ("BVF Inc.")

ITEM 2(b).

ADDRESS OF PRINCIPAL BUSINESS OFFICE:

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The principal business office of the Reporting Persons comprising the group filing this Schedule 13G is located at 900 North Michigan Avenue, Suite 1100, Chicago, Illinois, 60611.

ITEM 2(c).

CITIZENSHIP:

BVF:	a Delaware limited partnership
BVF2:	a Delaware limited partnership
Investments:	a Delaware limited liability company
ILL10:	an Illinois limited liability company
Partners:	a Delaware limited partnership
BVF Inc.:	a Delaware corporation

ITEM 2(d).

TITLE OF CLASS OF SECURITIES:

This Schedule 13G is being filed with respect to the common stock, par value \$0.001 per share ("Common Stock"), of Infinity. The Reporting Persons' percentage ownership of Common Stock is based on 19,737,359 shares of Common Stock being outstanding.

As of March 25, 2008, BVF beneficially owned 448,949 shares of Common Stock, BVF2 beneficially owned 309,000 shares of Common Stock, Investments beneficially owned 1,070,000 shares of Common Stock and ILL10 beneficially owned 133,000 shares of Common Stock. Partners and BVF Inc. may each be deemed to beneficially own 1,960,949 shares of Common Stock.

ITEM 2(e).

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ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13d-1(b), or 13d-2(b) or (c) CHECK WHETHER THE PERSON FILING IS: One of the following

Not applicable as this Schedule 13G is filed pursuant to Rule 13d-1(c).

ITEM 4. OWNERSHIP:

The information in items 1 and 5 through 11 on the cover pages (pp. 2 - 8) on this Schedule 13G is hereby incorporated by reference.

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS:

Not applicable.

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON:

Pursuant to the operating agreement of Investments, Partners is authorized, among other things, to invest the funds of Ziff Asset Management, L.P., the majority member of Investments, in the shares of Common Stock beneficially owned by Investments and to vote and exercise dispositive power over those shares of Common Stock. Partners and BVF Inc. share voting and dispositive power over shares of Common Stock beneficially owned by BVF, BVF2, Investments and those owned by ILL10, on whose behalf Partners acts as an investment manager and, accordingly, Partners and BVF Inc. have beneficial ownership of all of the shares of Common Stock owned by such parties.

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY:

Mr. Lampert is the owner, sole director and an officer of BVF Inc. BVF Inc. is the general partner of Partners, which is the general partner of BVF and BVF 2. Partners is the manager of Investments and is investment adviser to ILL10.

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF A GROUP:

The members of the group making this filing on Schedule 13G are: Biotechnology Value Fund, L.P., Biotechnology Value Fund II, L.P., BVF Investments, L.L.C., Investment 10, L.L.C., BVF Partners L.P. and BVF Inc.

ITEM 9. NOTICE OF DISSOLUTION OF GROUP:

Not applicable.

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ITEM 10. CERTIFICATION

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: April 3, 2008

BIOTECHNOLOGY VALUE FUND, L.P.*

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert
President

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

Mark N. Lampert
President

BVF INVESTMENTS, L.L.C.*

By: BVF Partners L.P., its manager

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert
President

INVESTMENT 10, L.L.C.*

By: BVF Partners L.P., its investment manager

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert
President

BVF PARTNERS L.P.*

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert
President

BVF INC.*

By: /s/ Mark N. Lampert

Mark N. Lampert
President

***The Reporting Person disclaims beneficial ownership except to the extent of its pecuniary interest therein.**

Exhibit A

JOINT FILING AGREEMENT

The undersigned agree that this Schedule 13G dated April 3, 2008, relating to the common Stock of Infinity, Inc. shall be filed on behalf of the undersigned.

Dated: April 3, 2008

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert
President

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

Mark N. Lampert
President

BVF INVESTMENTS, L.L.C.

By: BVF Partners L.P., its manager

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert
President

INVESTMENT 10, L.L.C.

By: BVF Partners L.P., its investment manager

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert
President

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert
President

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert
President