#### INFINITY PHARMACEUTICALS, INC.

Form 4

September 13, 2006

Check this box

if no longer

subject to

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

**OMB** Number:

**OMB APPROVAL** 

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Section 16. Form 4 or Form 5 obligations may continue.

See Instruction

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person \* 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading TANANBAUM JAMES B Issuer Symbol INFINITY PHARMACEUTICALS,

(Check all applicable)

INC. [INFI] (Middle)

(Zip)

3. Date of Earliest Transaction (Month/Day/Year)

09/12/2006

\_X\_\_ Director 10% Owner Other (specify

Officer (give title

C/O PROSPECT VENTURE PARTNERS, 435 TASSO STREET,

(Street)

(State)

(First)

**SUITE 200** 

(City)

(Last)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Applicable Line)

Filed(Month/Day/Year) \_X\_ Form filed by One Reporting Person Form filed by More than One Reporting

PALO ALTO, CA 94301

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

. •	Table 1 - Non-Derivative Securities Acquired, Disposed of, of Beneficiary Owned									
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if any (Month/Day/Year)			3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)  (A) or Code V Amount (D) Price			5. Amount of Securities Ownership Beneficially Form: Owned Direct (D) Following or Indirect Reported (I) Transaction(s) (Instr. 4) (Instr. 3 and 4)		
Common Stock	09/12/2006		A	134,688 (1)	A	<u>(2)</u>	134,688 (1)	I	By Tananbaum Family Trust	
Common Stock	09/12/2006		A	107,750 (1) (3)	A	<u>(4)</u>	107,750 (1)	I	By Prospect Venture Partners II, L.P.	
Common Stock	09/12/2006		A	510,575 (1) (3)	A	<u>(5)</u>	510,575 (1)	I	By Prospect Venture Partners II,	

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Common Stock O9/12/2006 A  $\frac{799,152}{(1)(3)}$  A  $\frac{(6)}{(3)}$  799,152  $\frac{(1)}{(1)}$  I  $\frac{(1)}{(1)}$  By Prospect Venture Partners II, L.P.

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

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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 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. Transactio Code (Instr. 8)	5. Number of or Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 15.04 (1)	09/12/2006		A	28,125 (1)	<u>(7)</u>	09/12/2016	Common Stock	28,125 (1)
Stock Option (right to buy)	\$ 15.04 (1)	09/12/2006		A	1,875 (1)	<u>(8)</u>	09/12/2016	Common Stock	1,875 (1)

# **Reporting Owners**

435 TASSO STREET, SUITE 200

PALO ALTO, CA 94301

Reporting Owner Name / Address

Director 10% Owner Officer Other

TANANBAUM JAMES B

C/O PROSPECT VENTURE PARTNERS

X

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## **Signatures**

/s/ James B.
Tananbaum

09/13/2006

\*\*Signature of Reporting Date

Person

## **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).
- (1) Reflects a 1-for-4 reverse stock split, which became effective on September 12, 2006.
- (2) Received in exchange for 609,375 shares of Infinity Discovery, Inc. ("IPI") common stock in connection with the merger of IPI into Infinity Pharmaceuticals, Inc. (the "Merger") based on a conversion ratio of 0.88411.
- The reporting person is a managing member of the general partner of the partnership that owns the reported securities. The reporting person disclaims beneficial ownership of the reported securities except to the extent of his pecuniary interest therein.
- (4) Received in exchange for 487,500 shares of IPI common stock in connection with the Merger based on a conversion ratio of 0.88411.
- (5) Received in exchange for 2,600,000 shares of IPI Series A Preferred Stock in connection with the Merger based on a conversion ratio of 0.78550. The Series A Preferred Stock had no expiration date.
- (6) Received in exchange for 3,200,000 shares of IPI Series B Preferred Stock in connection with the Merger based on a conversion ratio of 0.99894. The Series B Preferred Stock had no expiration date.
- The option vests as to 9,375 of the shares on the first anniversary of the grant date, which grant date was September 12, 2006, and the remainder in quarterly installments of 2,343 shares beginning at the end of the first quarter thereafter, provided that the holder continues to serve as a director.
- The option vests in quarterly installments of 468 shares beginning at the end of the first quarter after the date of grant, which grant date (8) was September 12, 2006, provided that the holder continues to serve as the chairman of the corporate governance committee of the board of directors.

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.

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