

INFINITY PHARMACEUTICALS, INC.  
 Form 4  
 September 13, 2006

**FORM 4**

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN 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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 SATO VICKI L

2. Issuer Name and Ticker or Trading Symbol  
 INFINITY PHARMACEUTICALS, INC. [INFI]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
 43 LARCH ROAD  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 09/12/2006

Director  10% Owner  
 Officer (give title below)  Other (specify below)

CAMBRIDGE, MA 02138

(City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
			Code	V	Amount	(D)	Price
Common Stock	09/12/2006		A		11,051 (1)	A	(2) 11,051 (1)

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)**

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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. Transaction Code (Instr. 8)	5. Number of 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)	8. Amount or Number of Shares
Stock Option (right to buy)	\$ 15.04 <sup>(1)</sup>	09/12/2006		A	28,125 <sup>(1)</sup>	<sup>(3)</sup> 09/12/2016	Common Stock	28,125 <sup>(1)</sup>
Stock Option (right to buy)	\$ 15.04 <sup>(1)</sup>	09/12/2006		A	9,375 <sup>(1)</sup>	<sup>(4)</sup> 09/12/2016	Common Stock	9,375 <sup>(1)</sup>
Stock Option (right to buy)	\$ 2.04 <sup>(11)</sup>	09/12/2006		A	2,210 <sup>(1)</sup>	<sup>(5)</sup> 03/01/2015	Common Stock	2,210 <sup>(1)</sup>
Stock Option (right to buy)	\$ 2.04 <sup>(11)</sup>	09/12/2006		A	5,525 <sup>(1)</sup>	<sup>(7)</sup> 03/01/2015	Common Stock	5,525 <sup>(1)</sup>
Stock Option (right to buy)	\$ 3.48 <sup>(11)</sup>	09/12/2006		A	2,210 <sup>(1)</sup>	<sup>(9)</sup> 06/12/2016	Common Stock	2,210 <sup>(1)</sup>

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SATO VICKI L 43 LARCH ROAD CAMBRIDGE, MA 02138	X			

## Signatures

/s/ Vicki L. Sato                      09/13/2006  
 \*\*Signature of                      Date  
 Reporting 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 50,000 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 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.
- (3) The option vests in quarterly installments of 2,343 shares beginning at the end of the first quarter after the date of grant, which grant date was September 12, 2006, provided that the holder continues to serve as the lead outside director.
- (4) The option vests as to 184 shares on March 31, 2005 and thereafter in equal monthly installments for one year.
- (5) Received in the Merger in exchange for a stock option to acquire 10,000 shares of IPI common stock for \$0.45 per share based on a conversion ratio of 0.88411.
- (6) The option vests in equal monthly installments for four years, beginning on March 31, 2005.
- (7) Received in the Merger in exchange for a stock option to acquire 25,000 shares of IPI common stock for \$0.45 per share based on a conversion ratio of 0.88411.
- (8) The option vests as to 552 shares on June 12, 2006, 184 shares on June 30, 2006 and the remainder in equal monthly installments through February 2007.
- (9) Received in the Merger in exchange for a stock option to acquire 10,000 shares of IPI common stock for \$0.77 per share based on a conversion ratio of 0.88411.
- (10) The exercise price reflects the exercise price of each option to purchase IPI common stock prior to the closing of the Merger divided by a conversion ratio of 0.88411, as adjusted to reflect the 1-for-4 reverse stock split.
- (11)

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.