

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 \*  
 LEVINE ARNOLD J

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)

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

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

C/O INSTITUTE FOR ADVANCED STUDY, SCHOOL OF NATURAL SCIENCES, EINSTEIN DR.

09/12/2006

(Street)

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

PRINCETON, NJ 08540

(City) (State) (Zip)

**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)
Common Stock	09/12/2006		A	(A) or (D)	18,787 (1) A (2) 18,787 (1)	D	

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	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	3,750 <sup>(1)</sup>	<sup>(4)</sup> 09/12/2016	Common Stock	3,750 <sup>(1)</sup>
Stock Option (right to buy)	\$ 3.48 <sup>(7)</sup>	09/12/2006		A	2,210 <sup>(1)</sup>	<sup>(5)</sup> 06/12/2016	Common Stock	2,210 <sup>(1)</sup>

## Reporting Owners

**Reporting Owner Name / Address**

**Relationships**

Director    10% Owner    Officer    Other

LEVINE ARNOLD J  
 C/O INSTITUTE FOR ADVANCED STUDY  
 SCHOOL OF NATURAL SCIENCES, EINSTEIN DR.  
 PRINCETON, NJ 08540

X

## Signatures

/s/ Arnold J.  
 Levine

09/13/2006

\*\*Signature of  
 Reporting Person

Date

## 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 85,000 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.
- (3) 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

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to serve as a director.

- (4) The option vests in quarterly installments of 937 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 research and development director.
- (5) 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.
- (6) 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.
- (7) 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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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