

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 *
 LANDER ERIC S

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)
 09/12/2006

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

C/O THE BROAD INSTITUTE, 7
 CAMBRIDGE CENTER, MIT
 BLDG. NE30-6013

(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

CAMBRIDGE, MA 02142

(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 Indirect Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Stock	09/12/2006		A		61,887 ⁽¹⁾	D	
Common Stock	09/12/2006		A		9,818 ⁽¹⁾	D	
Common Stock	09/12/2006		A		61,887 ^{(1) (5)}	I	By the Lander 1996 Irrevocable Trust

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. 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 (1)	09/12/2006		A	28,125 (1)	(6) 09/12/2016	Common Stock	28,125 (1)
Stock Option (right to buy)	\$ 3.48 (9)	09/12/2006		A	2,210 (1)	(7) 06/12/2016	Common Stock	2,210 (1)

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

LANDER ERIC S
C/O THE BROAD INSTITUTE
7 CAMBRIDGE CENTER, MIT BLDG. NE30-6013
CAMBRIDGE, MA 02142

X

Signatures

/s/ Eric S.
Lander

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)

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Received in exchange for 280,000 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) Received in exchange for 50,000 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.
- (4) Received in exchange for 280,000 shares of IPI common stock in connection with the Merger based on a conversion ratio of 0.88411.
- (5) The reporting person disclaims beneficial ownership of the reported securities except to the extent of his pecuniary interest therein.
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.
- (6) 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.
- (7) 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.
- (8) 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.
- (9)

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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