#### INFINITY PHARMACEUTICALS, INC.

Form 4

September 18, 2007

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

**OMB APPROVAL** 

**OMB** 3235-0287 Number:

January 31, Expires: 2005

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Check this box if no longer subject to 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 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person \* Holtzman Steven H

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

09/14/2007

INFINITY PHARMACEUTICALS, INC. [INFI]

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

(Check all applicable)

X Director

10% Owner

(Last)

(First)

(Middle)

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

\_X\_\_ Officer (give title below)

Other (specify

C/O INFINITY

PHARMACEUTICALS, INC., 780

(Street)

MEMORIAL DRIVE

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check Applicable Line)

Chairman and CEO

Filed(Month/Day/Year)

\_X\_ Form filed by One Reporting Person Form filed by More than One Reporting

CAMBRIDGE, MA 02139

(City) (State) (Zip)

09/14/2007

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

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) Code (Month/Day/Year) (Instr. 8)

4. Securities Acquired Transaction(A) or Disposed of (D) (Instr. 3, 4 and 5)

7. Nature of 5. Amount of Securities Ownership Indirect Beneficially Form: Direct Beneficial Owned (D) or Ownership **Following** Indirect (I) (Instr. 4) Reported (Instr. 4)

D

(A) Transaction(s) (Instr. 3 and 4) Price

9 1201

Code V Amount (D) P

5,000

Common Stock

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

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234,823

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

(9-02)

### Edgar Filing: INFINITY PHARMACEUTICALS, INC. - Form 4

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transacti Code (Instr. 8)			ate	7. Title Amoun Under	int of lying ities	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene
	Derivative Security				Securities Acquired			(Instr.	3 and 4)		Owne Follo
					(A) or Disposed						Repo Trans
					of (D) (Instr. 3, 4, and 5)						(Instr
					4, and 3)				Amount		
						Date Exercisable	Expiration Date	Title	or Number of		
				Code V	(A) (D)				Shares		

# **Reporting Owners**

Reporting Owner Name / Address	Relationships						
1	Director	10% Owner	Officer	Other			
Holtzman Stavan H							

Holtzman Steven H C/O INFINITY PHARMACEUTICALS, INC. 780 MEMORIAL DRIVE CAMBRIDGE, MA 02139

X

Chairman and CEO

# **Signatures**

/s/ Steven H. 09/18/2007 Holtzman

\*\*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).

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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