

Lynch Thomas J. Jr.  
 Form 3  
 October 08, 2009

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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 *<br>Lynch Thomas J. Jr.<br>(Last) (First) (Middle) | 2. Date of Event Requiring Statement<br>(Month/Day/Year)<br>10/06/2009 | 3. Issuer Name and Ticker or Trading Symbol<br>INFINITY PHARMACEUTICALS, INC. [INFI] | 4. Relationship of Reporting Person(s) to Issuer<br><br>(Check all applicable)<br><br><input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner<br><input type="checkbox"/> Officer <input type="checkbox"/> Other<br>(give title below)    (specify below) | 5. If Amendment, Date Original Filed(Month/Day/Year) |
|---|--|--|---|--|

C/O INFINITY  
 PHARMACEUTICALS,  
 INC., 780 MEMORIAL  
 DRIVE  
 (Street)  
  
 CAMBRIDGE, MA 02139  
 (City) (State) (Zip)

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 Beneficially Owned**

| 1. Title of Security<br>(Instr. 4)   | 2. Amount of Securities Beneficially Owned<br>(Instr. 4) | 3. Ownership Form:<br>Direct (D)<br>or Indirect (I)<br>(Instr. 5) | 4. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|--------------------------------------|--|---|--|
| No securities are beneficially owned | 0  | D <sup>(1)</sup>  | A  |

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

SEC 1473 (7-02)

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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

| 1. Title of Derivative Security<br>(Instr. 4) | 2. Date Exercisable and Expiration Date<br>(Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security | 4. Conversion or Exercise | 5. Ownership Form of | 6. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|---|---|--|---------------------------|----------------------|--|
|---|---|--|---------------------------|----------------------|--|

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| Date Exercisable | Expiration Date | (Instr. 4) | Amount or Number of Shares | Price of Derivative Security | Derivative Security: Direct (D) or Indirect (I) |
|------------------|-----------------|------------|----------------------------|------------------------------|---|
|                  |                 | Title      |                            |                              |   |

## Reporting Owners

**Reporting Owner Name / Address**

**Relationships**

Director 10% Owner Officer Other

Lynch Thomas J. Jr.  
 C/O INFINITY PHARMACEUTICALS, INC.  
 780 MEMORIAL DRIVE  
 CAMBRIDGE, MA 02139

Â X      Â      Â      Â

## Signatures

/s/ Thomas J. Lynch, Jr.      10/06/2009

\_\_Signature of Reporting Person      Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 5(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) Not Applicable

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.