

Palombella Vito J.  
Form 3/A  
April 22, 2013

**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)

<p>1. Name and Address of Reporting Person *</p> <p>Â Palombella Vito J.</p> <p>(Last) (First) (Middle)</p> <p>C/O INFINITY PHARMACEUTICALS, INC., Â 780 MEMORIAL DRIVE</p> <p>(Street)</p> <p>CAMBRIDGE, Â MA Â 02139</p> <p>(City) (State) (Zip)</p>	<p>2. Date of Event Requiring Statement</p> <p>(Month/Day/Year)</p> <p>05/18/2010</p>	<p>3. Issuer Name and Ticker or Trading Symbol</p> <p>INFINITY PHARMACEUTICALS, INC. [INFI]</p>	<p>4. Relationship of Reporting Person(s) to Issuer</p> <p>(Check all applicable)</p> <p><input type="checkbox"/> Director <input type="checkbox"/> 10% Owner</p> <p><input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other</p> <p>(give title below) (specify below)</p> <p>Chief Scientific Officer</p>	<p>5. If Amendment, Date Original Filed(Month/Day/Year)</p> <p>05/26/2010</p>	<p>6. Individual or Joint/Group Filing(Check Applicable Line)</p> <p><input checked="" type="checkbox"/> Form filed by One Reporting Person</p> <p><input type="checkbox"/> Form filed by More than One Reporting Person</p>
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**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	1,047 <sup>(1)</sup>	D	Â
Common Stock	4,117 <sup>(2)</sup>	I	401(k)

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)**

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1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date <small>(Month/Day/Year)</small>	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Palombella Vito J. C/O INFINITY PHARMACEUTICALS, INC. 780 MEMORIAL DRIVE CAMBRIDGE, MA 02139	Â	Â	Â Chief Scientific Officer	Â

## Signatures

/s/ Vito J.  
Palombella

04/22/2013

\*\*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) The Form 3 filed by the reporting person on May 26, 2010 omitted 1,047 shares that were directly held by the reporting person and inadvertently reported 4,117 shares as being held directly by the reporting person. 1,047 shares were directly held by the reporting person and 4,117 shares were held indirectly by the reporting person through the Infinity Pharmaceuticals, Inc. 401(k) plan (the "Plan") as of May 26, 2010.

(2) Represents shares acquired by the reporting person under the Plan as of May 26, 2010. These shares were previously inadvertently reported as being directly held by the reporting person.

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.