

INFINITY PHARMACEUTICALS, INC.  
 Form 3  
 December 01, 2008

**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 Rosebay Medical Co L.P.</p> <p>(Last) (First) (Middle)</p> <p>C/O NORTH BAY ASSOCIATES,Â 14000 QUAIL SPRINGS PARKWAY #2200</p> <p>(Street)</p> <p>OKLAHOMA CITY,Â OKÂ 73134</p> <p>(City) (State) (Zip)</p>	<p>2. Date of Event Requiring Statement</p> <p>(Month/Day/Year)</p> <p>11/19/2008</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>___ Director ___X_ 10% Owner          ___ Officer ___ Other          (give title below) (specify below)</p>	<p>5. If Amendment, Date Original Filed(Month/Day/Year)</p>	<p>6. Individual or Joint/Group Filing(Check Applicable Line)</p> <p>_X_ Form filed by One Reporting Person          ___ 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	2,000,000	D <sup>(1)</sup>	Â

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

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Rosebay Medical Co L.P. C/O NORTH BAY ASSOCIATES 14000 QUAIL SPRINGS PARKWAY #2200 OKLAHOMA CITY, OK 73134	^	^ X	^	^

## Signatures

Stephen A. Ives, as Vice President of Rosebay Medical Company, Inc., Rosebay Medical Company L.P.'s general partner

12/01/2008

\_\_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) These securities were purchased pursuant to the Securities Purchase Agreement between the Issuer, Purdue Pharma L.P. and Purdue Pharmaceutical Products L.P., dated November 19, 2008. These securities were distributed by Purdue Pharma L.P. and Purdue Pharmaceutical Products L.P. to the Reporting Person and Beacon Company, the ultimate parents of Purdue Pharma L.P. and Purdue Pharmaceutical Products L.P., via a series of distributions to each entity's limited partner until it reached 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.

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