

SMITH IAN F  
Form 4  
May 19, 2011

**FORM 4**

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

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

## OMB APPROVAL

OMB  
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2005  
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burden hours per  
response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
SMITH IAN F

(Last) (First) (Middle)

C/O INFINITY  
PHARMACEUTICALS, INC., 780  
MEMORIAL DRIVE

(Street)

CAMBRIDGE, MA 02139

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading  
Symbol

INFINITY PHARMACEUTICALS,  
INC. [INFI]

3. Date of Earliest Transaction  
(Month/Day/Year)  
05/18/2011

4. If Amendment, Date Original  
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

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

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 Acquired, Disposed of, or Beneficially Owned**

| 1. Title of<br>Security<br>(Instr. 3) | 2. Transaction Date<br>(Month/Day/Year) | 2A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 3. Transaction<br>Code<br>(Instr. 8) | 4. Securities<br>Acquired (A) or<br>Disposed of (D)<br>(Instr. 3, 4 and 5) | 5. Amount of<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s)<br>(Instr. 3 and 4) | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I)<br>(Instr. 4) | 7. Nature of<br>Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|---------------------------------------|-----------------------------------------|-------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|
|                                       |                                         |                                                             | Code                                 | V                                                                          | Amount                                                                                                             | (D)                                                                  | Price                                                             |

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

**Persons who respond to the collection of  
information contained in this form are not  
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number.**

SEC 1474  
(9-02)

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

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| 1. Title of<br>Derivative<br>Security<br>(Instr. 3) | 2. Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security | 3. Transaction Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date, if<br>any<br>(Month/Day/Year) | 4. Transaction<br>Code<br>(Instr. 8) | 5. Number<br>of Derivative<br>Securities<br>Acquired<br>(A) or<br>Disposed of<br>(D)<br>(Instr. 3, 4,<br>and 5) | 6. Date Exercisable and<br>Expiration Date<br>(Month/Day/Year) |     | 7. Title and Amount of<br>Underlying Securities<br>(Instr. 3 and 4) |                    | 8. I            |                                        |
|-----------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|---------------------------------------------------------------------|--------------------|-----------------|----------------------------------------|
|                                                     |                                                                    |                                         |                                                             | Code                                 | V                                                                                                               | (A)                                                            | (D) | Date<br>Exercisable                                                 | Expiration<br>Date | Title           | Amount<br>or<br>Number<br>of<br>Shares |
| Stock<br>Option<br>(right to<br>buy)                | \$ 6.8                                                             | 05/18/2011                              |                                                             | A                                    |                                                                                                                 | 6,000                                                          |     | <u>(1)</u>                                                          | 05/18/2021         | Common<br>Stock | 6,000                                  |
| Stock<br>Option<br>(right to<br>buy)                | \$ 6.8                                                             | 05/18/2011                              |                                                             | A                                    |                                                                                                                 | 4,000                                                          |     | <u>(2)</u>                                                          | 05/18/2021         | Common<br>Stock | 4,000                                  |

## Reporting Owners

| Reporting Owner Name / Address                                                                 | Relationships |           |         |       |
|------------------------------------------------------------------------------------------------|---------------|-----------|---------|-------|
|                                                                                                | Director      | 10% Owner | Officer | Other |
| SMITH IAN F<br>C/O INFINITY PHARMACEUTICALS, INC.<br>780 MEMORIAL DRIVE<br>CAMBRIDGE, MA 02139 | X             |           |         |       |

## Signatures

/s/ Gerald E. Quirk, as attorney-in-fact for Ian F. Smith 05/19/2011

\_\_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) The option vests over a period of one year in equal quarterly installments beginning at the end of the first quarter after the date of grant, provided that the holder continues to serve as a director of the issuer.
- (2) The option vests over a period of one year in equal quarterly installments beginning at the end of the first quarter after the date of grant, provided that the holder continues to serve as chair of the Audit Committee of the issuer's Board of Directors.

### Remarks:

Exhibit 24 - Limited Power of Attorney

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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