INFINITY PHARMACEUTICALS, INC. Form 3 September 13, 2006 **FORM 3** UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 OMB 3235-02

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

OMB Number: 3235-0104 Expires: January 31, 2005 Estimated average burden hours per response... 0.5

(Print or Type Responses)

| 1. Name and Address of Reporting Person <u>*</u> TANANBAUM JAMES B | | | 2. Date of Event Requiring Statement (Month/Day/Year) | 3. Issuer Name and Ticker or Trading Symbol INFINITY PHARMACEUTICALS, INC. [INFI] | | | | | |
|---|-------------------------|--|--|--|-----------------|---|---|--|--|
| (Last) | (First) | (Middle) | 09/12/2006 4. Relationship of Reporting Person(s) to Issuer | | | | 5. If Amendment, Date Origin Filed(Month/Day/Year) | | |
| C/O PROSPECT VENTURE PARTNERS, 435 TASSO STREET, SUITE 200 (Street) PALO ALTO, CA 94301 | | | | (Check all applicable) <u>X</u> Director 10% Own Officer Other (give title below) (specify below) | | Owner | r 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person | | |
| | | | | | | | Form filed by More than One Reporting Person | | |
| (City) | (State) | (Zip) | Table I - I | Non-Deriva | tive Securiti | es Be | neficially Owned | | |
| 1.Title of Security (Instr. 4) | | 2. Amount of Beneficially (Instr. 4) | Owned Ownership Ow | | | Nature of Indirect Beneficial mership str. 5) | | | |
| No securities | s are benef | icially own | ed 0 | | D (1) | Â | | | |
| Reminder: Repo owned directly | or indirectly. Perso | ons who res | the class of securities benefic pond to the collection of | i s | EC 1473 (7-02 | 2) | | | |
| | requi | red to respo | ained in this form are no nd unless the form disp MB control number. | - | | | | | |
| Т | able II - De | rivative Secu | rities Beneficially Owned (a | e.g., puts, calls | , warrants, opt | tions, c | onvertible securities) | | |

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

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| Date | Expiration | Title | Amount or | Security | Direct (D) |
|-------------|------------|-------|-----------|----------|-------------|
| Exercisable | Date | | Number of | | or Indirect |
| | | | Shares | | (I) |
| | | | | | (Instr. 5) |

Reporting Owners

| Reporting Owner Name / Address | | Relationships | | | | | |
|---|------------|---------------|-----------|---------|-------|--|--|
| | | Director | 10% Owner | Officer | Other | | |
| TANANBAUM JAMES B C/O PROSPECT VENTUR 435 TASSO STREET, SUI PALO ALTO, CA 9430 | ÂX | Â | Â | Â | | | |
| Signatures | | | | | | | |
| /s/ James B. Tananbaum | 09/13/2006 | | | | | | |
| **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.