Quirk Gerald E Form 3 January 07, 2010

FORM 3

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

OMB APPROVAL

OMB Number:

3235-0104

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement INFINITY PHARMACEUTICALS, INC. [INFI] Quirk Gerald E (Month/Day/Year) 01/01/2010 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) C/O INFINITY (Check all applicable) PHARMACEUTICALS, INC.. 780 MEMORIAL 10% Owner Director DRIVE _X__ Officer Other (give title below) (specify below) (Street) 6. Individual or Joint/Group VP,Cor. Affairs & Gnrl Counsel Filing(Check Applicable Line) _X_ Form filed by One Reporting Person CAMBRIDGE, MAÂ 02139 Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 4. Nature of Indirect Beneficial 1. Title of Security 2. Amount of Securities Beneficially Owned Ownership Ownership (Instr. 4) (Instr. 4) (Instr. 5) Form: Direct (D) or Indirect (Instr. 5) Â Common Stock D 2,680 Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) owned directly or indirectly.

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

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

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	Date Exercisable	Expiration Date	(Instr. 4) Title	Amount or Number of Shares	Price of Derivative Security	Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	(Instr. 5)
Stock Option (Right to Buy)	09/11/2006(1)	09/11/2016	Common Stock	66,308	\$ 15.36	D	Â
Stock Option (Right to Buy)	(2)	01/25/2017	Common Stock	3,113	\$ 13.59	D	Â
Stock Option (Right to Buy)	(3)	12/13/2017	Common Stock	20,815	\$ 9.8	D	Â
Stock Option (Right to Buy)	(4)	12/04/2018	Common Stock	35,415	\$ 7.18	D	Â

Reporting Owners

Reporting Owner Name / Address	Kciationsinps			
•	Director	10% Owner	Officer	Other

Quirk Gerald E C/O INFINITY PHARMACEUTICALS, INC. 780 MEMORIAL DRIVE CAMBRIDGE, MAÂ 02139

Â VP,Cor. Affairs & Gnrl Counsel

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Signatures

/s/ Gerald E.

Quirk

**Signature of Date

**Signature of Reporting Person

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).
- This option was granted under the issuer's Pre-Merger Stock Incentive Plan, which permits the early exercise of unvested stock options in exchange for shares of restricted stock that are subject to a right of repurchase by the issuer that lapses in accordance with the vesting schedule of the original option. This option is currently vested as to 53,876 shares and vests as to the remaining shares in equal monthly installments through September 11, 2010.
- (2) The option vests as to 1/48th of the shares on January 25, 2007 and vests as to 1/48th of the shares at the end of each calendar month thereafter.
- (3) The option vests as to 1/48th of the shares on December 31, 2007 and vests as to 1/48th of the shares at the end of each calendar month thereafter.
- (4) The option vests as to 1/48th of the shares on December 31, 2008 and vests as to 1/48th of the shares at the end of each calendar month thereafter.

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.

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