Quirk Gerald E

Form 3

January 07, 2010)								
FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSIO						MISSION	OMB APPROVAL		
	•		Wash	ington, D	.C. 20549			OMB Number:	3235-0104
	IN	ITIAL S'	TATEMENT	OF BEN	EFICIAL	OWNERSH	IP OF	Expires:	January 31,
				SECURITIES 6(a) of the Securities Exchange Act of 1934,			t of 1934,	Expires. 2005 Estimated average burden hours per response 0.5	
	Section		the Public Util (h) of the Inve	-		-	5 or Section		
(Print or Type Respo	onses)								
Person <u>Statement</u>			Statement (Month/Day/Yea		uiring 3. Issuer Name and Ticker or Trading Symbol INFINITY PHARMACEUTICALS, INC. [INFI]				
(Last) (F	First)	(Middle)	01/01/2010					f Amendment, Date Original d(Month/Day/Year)	
CAMBRIDGE,	MORIAI	L	2. B	a ble I - N Amount of eneficially (instr. 4)	Directo _X Officer (give title belo VP,Cor. Aff on-Deriva Securities	 Other w) (specify beld fairs & Gnrl Co tive Securiti 3. Ownership Form: Direct (D) 	Owner () () () () () () () () () ()	orm filed by More ting Person	ole Line) Reporting e than One
						or Indirect (I) (Instr. 5)			
Common Stock			2	,680		D	Â		
Reminder: Report of owned directly or in	-	e line for ea	ch class of securit	ies beneficia	ally S	SEC 1473 (7-02)		
	informa	tion conta	oond to the coll lined in this for nd unless the f	m are not	iys a				

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

currently valid OMB control number.

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)	(<u>3)</u>	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		Relationships				
	Director	10% Owner	Officer	Other		
Quirk Gerald E C/O INFINITY PHARMACEUTICALS, INC. 780 MEMORIAL DRIVE CAMBRIDGE, MA 02139	Â	Â	VP,Cor. Affairs & Gnrl Counsel	Â		
Ciamaturaa						

Signatures

/s/ Gerald E. Quirk	01/07/2010
**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).

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

- (1) cxchange for shares of restricted stock that are subject to a right of reputchase 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.