FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
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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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name at MUEL (Last)	IDE IDRA	2. Issuer Name and Ticker or Trading Symbol  IDERA PHARMACEUTICALS, INC. [ IDRA ]  3. Date of Earliest Transaction (Month/Day/Year)									k all appl Direct	tor er (give title		10% O Other (s	vner				
(Last) (First) (Middle) 1802 CHESTER HOLLOW LANE						06/16/2009										,		5010117	
(Street) WEST CHESTE	ER PA	<b>A</b> 1	19382		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indi Line) X	Form	or Joint/Group Filing (Check Applicable I filed by One Reporting Person I filed by More than One Reporting on			
(City)	(St	ate) (	Zip)																
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day						Execution Date,			3. Transaction Code (Instr. 8)  4. Securities Acquired Disposed Of (D) (Instr. and 5)						ties Fo cially (D)		m: Direct	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amoun	nt (A) or (D)		ce	Report Transa			ur. 4)	(1115tr. 4)
		Ta							uired, Dis , options						Owned				
	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)		n of I		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		of De Se (Ir	Price erivative ecurity nstr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisable		piration te	Title	Amous or Number of Shares	er					
Stock Option (Right to Buy)	\$6.72 <sup>(1)</sup>	06/16/2009			A		10,000		(2)	06.	/16/2019	Common Stock	10,00	00	\$0.00	10,000		D	

## Explanation of Responses:

- 1. The exercise price is equal to the closing price of the issuer's common stock on June 16, 2009.
- 2. The option vests in twelve equal quarterly installments over three years, beginning on September 16, 2009.

## Remarks:

/s/ Hans Mueller

06/16/2009

\*\* Signature of Reporting Person

Date

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

- \* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.