FORM 4

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

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

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 and Address of Reporting Person*  MUELLER HANS					2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDP]									(Che	eck all app	olicable) itor	g Person(s) to	Owner
(Last) 1802 CF	· ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '				3. Date of Earliest Transaction (Month/Day/Year) 09/25/2007										Offic belov	er (give title w)	Other below	(specify
(Street) WEST CHESTE			19382 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	ndividual or Joint/Group Filing (Check Applicable e)  X Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tab	le I - Non-l	-Deriva	ative S	Sec	uritie	s Ad	cquired, I	Disp	osed	of, or B	Benef	icial	ly Owne	ed		
1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day)				Execution Date,			Code (In		on Disposed and 5)		quired (A) or (Instr. 3, 4		Secur Benef Owned Follow Repor Trans	ities icially d ving	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	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 Number		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		o E S	. Price of Perivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				c	Code	v	(A)	(D)	Date Exercisable	Exp Dat	oiration e	Title	Amor or Numl of Share	oer				
Stock Options	\$8.4	09/25/2007			A		3,125		09/25/2008	09/2	25/2017	Common Stock	3,12	25	\$0.00	3,125	D	

**Explanation of Responses:** 

Remarks:

<u>Hans Mueller</u> <u>09/27/2007</u>

\*\* Signature of Reporting Person Date

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

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.

<sup>\*</sup> If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).