FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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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 and Address of Reporting Person* MUELLER HANS						2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDRA]									k all app Dired	ionship of Reporting F all applicable) Director		10% Owner	
(Last) (First) (Middle) 1802 CHESTER HOLLOW LANE						3. Date of Earliest Transaction (Month/Day/Year) 11/12/2009									Offic belo	er (give title w)		Other (specify below)	
(Street) WEST CHESTE (City)			9382 Zip)		4. If A	If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Line) X Form filed by More Person													
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/Y					/Year) i	Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired (AD Disposed Of (D) (Instr. 3 5)					, 4 and Secur		icially d	6. Owner Form: Di (D) or Indirect ((Instr. 4)	rect	7. Nature of Indirect Beneficial Ownership (Instr. 4)
		Code	v	Amount	(A) (D)				(A) or (D) Pri		Repo		(111341 . 4)		(111341. 4)				
Common Stock 11/12/20						009			P		2,000	A	\$:	5.1667	6,000		D		
	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)	vative Conversion Date Execution Date, urity or Exercise (Month/Day/Year) if any		Code (I	sinsaction de (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		vative rities ired r osed)	Control Expiration Date (Month/Day/Year) Date Expiration Exercisable and Expiration Date Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amount or Numbrof Title Shares		of De Se (In	Price rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owne Form Direct or Ind (I) (In: 4)	: t (D) direct	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

Remarks:

/s/ Hans Mueller

11/12/2009

** 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.

 $^{^{\}star}$ 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).