FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
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	Check this box if no longer subject
П	to Section 16. Form 4 or Form 5
Ш	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]										onship of Reporting F Il applicable) Director		10% Owner	
(Last) (First) (Middle) 1802 CHESTER HOLLOW LANE						3. Date of Earliest Transaction (Month/Day/Year) 11/24/2009										ficer (give title low)		Other (specif below)	
(Street) WEST CHESTE (City)			9382 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									e) <mark>X</mark> Fo	rvidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Table	e I - N	on-Deriv	ative S	Secu	ıritie	s Acq	uired, [Disp	osed o	f, or	Bene	ficial	ly Ow	ned			
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)					Sec Ber Ow	amount of urities reficially ned lowing	6. Owner Form: D (D) or Indirect	irect	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount (A) o			Price	Rep Tra	oorted nsaction(s) etr. 3 and 4)	(Instr. 4)		(Instr. 4)
Common Stock 11/24/2						.009			P		4,000)	Α	\$5.		10,000	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)	rivative Conversion Date Execution Date, curity or Exercise (Month/Day/Year) if any			Code (Ir	ransaction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Date Expiration Expiration Expiration Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amou or Numb of Title Share:		ount	3. Price of Derivativ Security Instr. 5)	Beneficially	Owner Form Direct or In (I) (In 4)	t (D) direct	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

Remarks:

/s/ Hans Mueller

11/24/2009

** 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).