NEW YORK

(City)

NY

(State)

US 10021

(Zip)

FORM 4

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

Washington, D.C. 20549

OMB APPROVAL					
OMB Number:	3235-0287				
Estimated average burd	len				
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								urities Exchan Company Act			1						
		2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [ IDP ]  5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner Officer (give title Other (specify																			
(Last) (First) (Middle) 667 MADISON AVENUE 17TH FLOOR					3. Date of Earliest Transaction (Month/Day/Year) 07/17/2008										Officer (give title Other (specify below) below)						
(Street) NEW YO			JS 1 (	0021	4. If A	Ame	endr	ment, D	ate o	f Orig	inal F	Filed (Month/E	Oay/Yea	r)			n filed by n filed by	Group F	eporting	Pers	on
(Oity)	(0.			- Non-Deriv	ative 9	S-0		ritios	Δca	uire	4 D	isnosed o	f or F	Ronofi	icia	ally Own					
1. Title of	Security (Ins			2. Transaction Date (Month/Day/Ye	2A. Exe	. D ecu	eemo		3. Tra	ansaci de (In	tion	4. Securities Disposed Of and 5)	Acquir	ed (A)	or	5. Amount Securities Beneficial Owned Following	t of ly	6. Own Form: (D) or Indired	Direct	Indi Ben Own	eficial ership
									Со	de	v	Amount	(A) or (D)	Price		Reported Transactio (Instr. 3 a	on(s)	(Instr.	<del>"</del> ,	(Inst	
Common	Stock <sup>(1)(2)</sup>			07/17/200	8					S		3,535(3)	D	\$14	.8	49,12	8(4)	]	[		ough tnership <sup>(4)</sup>
		Та	ble	II - Derivat								posed of, convertib				y Owned		,			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if an		4. Transac Code (I 8)		on tr.	5. Num of Derivat Securit Acquire (A) or Dispos of (D) (Instr. 3	ive ies ed	Expir	ation	ercisable and Date y/Year)	7. Title Amour Securi Under Deriva Securi 3 and	nt of ties lying tive ty (Inst	r.	8. Price of Derivative Security (Instr. 5)	9. Num derivat Securing Benefic Owned Follow Report Transa (Instr.	tive ties cially ring ted action(s)	10. Owner Form: Direct or Indi (I) (Ins 4)	(D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	,	v	(A) (I		Date Exerc	isabl	Expiration e Date	Title	Amou or Numb of Share	er						
		f Reporting Person pital (GP), LI																			
(Last)	DISON AV	(First) ENUE 17TH FLO		(Middle)																	
(Street) NEW YO	ORK	NY	1	US 10021																	
(City)		(State)	(	(Zip)																	
	nd Address o	f Reporting Person	•																		
(Last) 667 MA	DISON AV	(First) ENUE, 17TH FL		(Middle)																	
(Street)						-															

1. Name and Addre	, ,	rson*
(Last)	(First)	(Middle)
667 MADISON	AVENUE, 17TH	FLOOR
(Street)		
NEW YORK	NY	US 10021
(City)	(State)	(Zip)

## **Explanation of Responses:**

- 1. In addition to Baker Bros. Capital (GP), LLC, this Form 4 is being filed jointly by Felix J. Baker and Julian C. Baker, each of whom has the same business address as Baker Bros. Capital (GP), LLC and may be deemed to have a pecuniary interest in securities owned by it. Because of certain relationships with other security holders of the Issuer, the Reporting Persons are filing solely for informational purposes as if they were members of a group with such shareholders. (Continued in footnote 2).
- 2. However, the Reporting Persons disclaim that they and any other person or persons in fact constitute a "group" for purposes of Section 13(d)(3) of the Securities Exchange Act of 1934, as amended, or Rule 13d 5 thereunder or that they are the beneficial owner of securities owned by such other persons, and each of them disclaims beneficial ownership of securities reported herein except to the extent of their pecuniary interest, if any, therein.
- $3. \ Represents\ 781\ shares\ sold\ by\ Baker\ Bros.\ Investments\ II,\ L.P.\ and\ 864\ shares\ sold\ by\ Baker\ Bros.\ Investments,\ L.P.\ and\ 864\ shares\ sold\ by\ Baker\ Bros.\ and\ by\ Baker\ Bros.\ a$
- 4. Represents shares 25,000 shares owned directly by Baker Bros. Investments II, L.P. and 27,663 shares owned directly by Baker Bros. Investments, L.P., limited partnerships of which the sole general partner is Baker Bros. Capital, L.P., a limited partnership of which the sole general partner is Baker Bros. Capital (GP), LLC. Felix J. Baker and Julian C. Baker are controlling members of Baker Bros. Capital (GP), LLC.

 /s/ Julian C. Baker, as
 Managing Member of Baker
 07/21/2008

 Bros. Capital (GP), LLC
 /s/ Julian C. Baker
 07/21/2008

 /s/ Felix J. Baker
 07/21/2008

 \*\* 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.