FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL						
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Estimated average bur	den					
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

							. ,			t Company A	-									
Name and Address of Reporting Person* Baker Brothers Life Sciences Capital (GP), LLC		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										
				3. Date of Earliest Transaction (Month/Day/Year) 07/28/2008									Officer (give title Other (specify below) below)						есіту	
(Last) (First) (Middle) 667 MADISON AVENUE, 17TH FLOOR				4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable								
(Street) NEW YORK NY US 10021													Form filed by One Reporting Person X Form filed by More than One Reporting Person							
(City)	(St	ate) (Z	Zip)																	
		Tabl	e I - Non-Deriva	ative S	Secu	uritie	s Acq	uir	ed,	Disposed	of, o	r Bei	nefici	ially	y Owne	ed				
Da		2. Transaction Date (Month/Day/Year)		tion		3. Transaction Code (Instr. 8)							Se Be	. Amount of ecurities eneficially bwned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership		
							Code	•	v	Amount	ount (A) Pric		e	Re	ollowing eported ransactio nstr. 3 an	n(s)	(Instr. 4)		(Instr. 4	.)
Common	Stock ⁽¹⁾⁽²⁾		07/28/2008	07/28/2008 s 5,901		D	\$14	1.8726	6	437,700		I		Through Partnership ⁽³⁾						
Common Stock ⁽¹⁾⁽²⁾ 07/29/2008					S			19,670	D	\$1	\$14.931		418,030		I		Throug Partne	gh rship ⁽³⁾		
		Та	ble II - Derivati							isposed o					Owned					
1. Title of Derivative Security (Instr. 3)	Derivative Conversion Date Security or Exercise (Month/Day/Year)		3A. Deemed Execution Date, if any	4. Transac Code (In 8)	tion	_	mber rative rities ired r osed)	6. E	Date I	Exercisable and the control of the c	nd 7. An Sei Un De	1		8. I of De Sec	Price erivative ecurity estr. 5)	vative Securit urity Benefic		10. Owners Form: Direct (or Indi (I) (Inst 4)	ship of Be (D) Ow rect (In:	Nature Indirect neficial mership str. 4)
				Code	v	(A)	(D)	Dat Exe	e ercisa		Expiration e Date Title Share									
		f Reporting Person Life Science	es Capital (Gl	<u>P),</u>																
(Last)		(First) ENUE, 17TH FLO	(Middle)																	
(Street) NEW YO	ORK	NY	US 10021																	
(City)		(State)	(Zip)																	

1. Name and Address		rson*							
(Last)	(First)	(First) (Middle)							
667 MADISON	AVENUE, 17TH	FLOOR							
(Street)									
NEW YORK	NY	US 10021							
(City)	(State)	(Zip)							
1. Name and Addres		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 Brothers Life Sciences Capital (GP), LLC, this Form 4 is being filed jointly by Julian C. Baker and Felix J. Baker, each of whom has the same business address as Baker Brothers Life Sciences 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 of 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 owners of securities owned by any 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 securities owned directly by Baker Brothers Life Sciences, L.P., the sole general partner of which is Baker Brothers Life Sciences Capital, L.P., a limited partnership the sole general partner of which is Baker Brothers Life Sciences Capital (GP), LLC. Julian C. Baker and Felix J. Baker are the controlling members of Baker Brothers Life Sciences Capital (GP), LLC.

/s/ Julian C. Baker, as

Managing Member of Baker 07/30/2008

Brothers Life Sciences Capital

(GP), LLC

<u>/s/ Julian C. Baker</u> <u>07/30/2008</u> <u>/s/ Felix J. Baker</u> <u>07/30/2008</u>

** 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.