FORM 4

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

Washington, D.C. 20549

OMB APPROVAL						
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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

Name and Address of Reporting Person*     Baker Brothers Life Sciences Capital     (GP), LLC					<u>al</u>	Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [ IDP ]      Date of Earliest Transaction (Month/Day/Year)									Relationship of Reporting (Check all applicable)     Director     Officer (give title below)				10% (	Owner (specify
(Last)	(Fir	rst)	(Middle	e)		04/25/2006														
667 MADI		ENUE				4. If Amendment, Date of Original Filed (Month/Day/Year)							6. I Lin		dual or Joi	nt/Gro	up Filing	g (Check	Applicable	
17TH FLO	OR ———														-,	Form filed	•		•	
(Street)						X Form filed by More than One Reporting Person									oorting					
NEW YOR	K NY	T	1002	1																
(City)	(St	ate)	(Zip)																	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Trans Date (Month/l				Executi		Date,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, and 5)			Se Be Ov	Amount of curities eneficially wned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
								Code	e \	,	Amount	(A) or (D)	Price	Re Tr	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		instr. 4)	
Common S	Common Stock <sup>(1)</sup> 04/25/20		5/200	6		J <sup>(2)(3</sup>	3)(4)		5,094,92	24 D	\$0		0				See Footnote <sup>(5)</sup>			
Common Stock 04/25		5/200	6			J <sup>(2)(3</sup>	3)(4)		674,120	) D	\$0		0		I		See Footnote <sup>(6)</sup>			
Common Stock 04/25/20			5/200	6			J <sup>(2)(3</sup>	3)(4)		811,124 D		\$0		0		I		See Footnote <sup>(7)</sup>		
Common Stock 04/25/		5/200	)6		J(2)(3	3)(4)		6,580,168 A		\$0		11,175,900				See Footnote <sup>(8)</sup>				
			Tal									osed of, or onvertible			vne	i				
1. Title of	2.	3. Transaction	3A. Deen	ned	4. Transaci		5. Number o	of Derivativ	ve 6. [	Date Exe	ercis	able and	7. Title and	Amount of		8. Price of		mber of	10.	11. Nature
Derivative Conversion Security (Instr. 7) Price of Conversion (Month		(Month/Day/Year) any	any			ion str.	Securities A or Disposed (Instr. 3, 4 a	of (D)	A) Expiration Da (Month/Day/Y				Securities U Derivative Se and 4)		r. 3	Derivative Security (Instr. 5)	deriva Secur Benef	ities	Ownership Form: Direct (D)	of Indirect Beneficial Ownership
	Derivative Security				Code	v	(A)	(D)	Da Exe	ite ercisabl	e	Expiration Date	Title	Amoun Number Shares	or		Owne Follow Repor Trans (Instr.	wing rted action(s)	or Indirect (I) (Instr. 4	
Warrant	\$0.65	04/25/2006			J			3,821,19	09	/26/200	06	09/26/2011	Common Stock	3,821	193	\$0		0	I	See footnote <sup>(5)</sup>
Warrant	\$0.65	04/25/2006			J			505,590	09.	/26/200	06	09/26/2011	Common Stock	505,	590	\$0		0	I	See footnote <sup>(6)</sup>
Warrant	\$0.65	04/25/2006		J				608,343	09/26/2006		06	09/26/2011 Common Stock		608,3	343	\$0		0 I		See footnote <sup>(7)</sup>
Warrant	\$0.65	04/25/2006			J		4,935,126		09.	/26/200	06	09/26/2011	Common Stock	4,935	,126	\$0	8,38	81,925	I	See footnote <sup>(8)</sup>

(Last) 667 MADISON . 17TH FLOOR	(First) AVENUE	(Middle)
(Street) NEW YORK	NY	10021
(City)	(State)	(Zip)
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(Street) NEW YORK	NY	10021
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(City)	(State)	(Zip)
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17TH FLOOR		
(Street)	NY	10021
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(City)  1. Name and Addre  Baker Biotec  (Last)  667 MADISON  17TH FLOOR  (Street)  NEW YORK	(State) ss of Reporting Per ch Capital III ( (First) AVENUE	(Zip) son* (Z) (GP), LLC (Middle)
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1. Name and Addre		rson <sup>*</sup>	
(Last) 667 MADISON	(First) AVENUE	(Middle)	
(Street)			
NEW YORK	NY	10021	
(City)	(State)	(Zip)	

## **Explanation of Responses:**

- 1. In addition to Baker Brothers Life Sciences Capital (GP), LLC (formerly known as Baker Biotech Capital III (GP), LLC), this form is being filed jointly by Julian C. Baker, Felix J. Baker, Baker Biotech Capital II (GP), LLC, Baker Biotech Capital II (Z)(GP), LLC, and Baker Biotech Capital III (Z)(GP), each of whom has the same business address as Baker Brothers Life Sciences Capital (GP), LLC. Each of the reporting persons disclaims beneficial ownership of the securities reported hereon except to the extent of his or its pecuniary interest, if any, therein.
- 2. On April 25, 2006, Baker Biotech Fund II, L.P., Baker Biotech Fund II (Z), L.P. and Baker Biotech Fund III (Z), L.P. were merged with and into Baker Biotech Fund III, L.P., which changed its name simultaneously therewith to Baker Brothers Life Sciences, L.P. Simultaneously therewith, Baker Biotech Capital II, L.P., Baker Biotech Capital II (Z), L.P., and Baker Biotech Capital III (Z), L.P., the general partners of Baker Biotech Fund II, L.P., Baker Biotech Fund III (Z), L.P., and Baker Biotech Fund III, L.P., and Baker Biotech Fund III, L.P., the general partner of Baker Biotech Fund III, L.P., and Baker Biotech Capital III, L.P., the general partner of Baker Biotech Fund III, L.P., and Baker Biotech Capital III, L.P., the general partner of Baker Biotech Fund III, L.P., and Baker Biotech Capital III, L.P., the general partner of Baker Biotech Fund III, L.P., and Baker Biotech Capital III, L.P., the general partner of Baker Biotech Fund III, L.P., and Baker Biotech Capital III, L.P., the general partner of Baker Biotech Fund III, L.P., and Baker Biotech Capital III, L.P., the general partner of Baker Biotech Fund III, L.P., and Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III, L.P., the general partner of Baker Biotech Fund III, L.P., and Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotech Fund III (Z), L.P., the general partner of Baker Biotec
- 3. In addition, simultaneously therewith, Baker Biotech Capital II (GP), LLC, Baker Biotech Capital II (Z)(GP), LLC, and Baker Biotech Capital III (Z)(GP), LLC, the general partners of Baker Biotech Capital II, L.P., Baker Biotech Capital III (Z), L.P., and Baker Biotech Capital III (Z), L.P., respectively, were merged with and into Baker Biotech Capital III (GP), LLC, the general partner of Baker Biotech Capital III (GP), LLC changed its name simultaneously therewith to Baker Brothers Life Sciences Capital (GP), LLC. Julian C. Baker are the controlling members of Baker Biotech Capital III (GP), LLC, Baker Biotech Capital II (Z)(GP), LLC and Baker Biotech Capital III (Z)(GP), LLC, and may have a pecuniary interest in shares held by them. Such pecuniary interest, if any, was unchanged as a result of the mergers referred to herein. (Continued in footnote 4.)
- 4. Julian C. Baker and Felix J. Baker disclaim beneficial ownership of the shares reported herein except to the extent of their pecuniary interest, if any, therein.
- 5. Represents securities owned directly by Baker Biotech Fund II, L.P., which is no longer subject to Section 16 of the Securities Exchange Act of 1934.
- 6. Represents securities owned directly by Baker Biotech Fund II (Z), L.P., which is no longer subject to Section 16 of the Securities Exchange Act of 1934.
- 7. Represents securities owned directly by Baker Biotech Fund III(Z), L.P., which is no longer subject to Section 16 of the Securities Exchange Act of 1934.
- 8. Represents securities owned directly by Baker Brothers Life Sciences, L.P. (formerly known as Baker Biotech Fund III, L.P.).

/s/ Julian C. Baker, as Managing Member of Baker Biotech Capital II (GP), LLC	08/17/2006
/s/ Julian C. Baker, as Managing Member of Baker Biotech Capital II (Z) (GP), LLC	08/17/2006
/s/ Julian C. Baker, as Managing Member of Baker Biotech Capital III (GP), LLC	08/17/2006
/s/ Julian C. Baker, as Managing Member of Baker Biotech Capital III (Z) (GP), LLC	08/17/2006
s/ Julian C. Baker, as Managing Member of Baker Brothers Life Sciences Capital (GP), LLC	08/17/2006
/s/ Julian C. Baker	08/17/2006
/s/ Felix J. Baker	08/17/2006
** 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.

 $<sup>^{\</sup>star}$  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).