FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL					
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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

1. Name and Address of Reporting Person* BAKER JULIAN				IDE	2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDRA]							5. Relationship of (Check all applications) X Director		plica ctor	able)	10% C)wner		
(Last) (First) (Middle) 667 MADISON AVENUE, 21ST FLOOR					3. Date of Earliest Transaction (Month/Day/Year) 10/03/2016									belov		give title	below)	(specify	
(Street) NEW YORK NY 10065 (City) (State) (Zip)				4. If Ar	4. If Amendment, Date of Original Filed (Month/Day/Year)						Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person Torm filed by More than One Reporting Person								
		Tabl	e I - Non-Deriv	ative S	ec	uriti	es Acc	quire	d, Di	spose	d of,	, or	Benefi	icia	Ily Owne	ed			
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acq Disposed Of (D) (and 5)		f (D) (I	(Instr. 3, 4		5. Amount of Securities Beneficially Owned Following			6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
							Code	v	Amo	unt	(A) or (D)	Pr	ice	Trai	orted nsaction(s) tr. 3 and 4)				
Common	Stock		10/03/2016				A		8,	299	A	\$	2.56		682,377		I	See footnote	(1)(2)(3)(6)(7)
Common Stock		10/03/2016				A		8,	299	A	\$	2.56	6	,380,737		I	See footnote	(1)(2)(4)(6)(7)	
Common Stock		10/03/2016				A		8,	299	A	\$	2.56		111,010		I	See footnote	See footnote ⁽¹⁾⁽²⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾	
Table II - Derivative S															y Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any	4. Transact	Transaction of Ex		6. Dat	Date Exercisable and kpiration Date Amount of Securities Underlying Derivative Security (Ins 3 and 4)				le and int of rities rlying ative rity (Inst	8. Price of Derivative Security (Instr. 5)		dei Sei Be Ow Fo Re Tra	rivative curities eneficially vned llowing	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exerc	isable	Expira Date		Title	Amou or Numb of Share	er					
Name and Address of Reporting Person* BAKER JULIAN																			
(Last) (First) (Middle) 667 MADISON AVENUE, 21ST FLOOR																			
(Street) NEW YO)RK	NY	10065																
(City)		(State)	(Zip)																

667 MADISIO	(First) N AVENUE, 21ST	(Middle)
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Street) NEW YORK	NY	10065
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Street) NEW YORK	NY	10065
(City)	(State)	(Zip)
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. Name and Addi 14159, L.P.	ess of Reporting Pe	rson* (Middle)
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1. Name and Addre	ss of Reporting Pe	rson*	
(Last)	(First)	(Middle)	
667 MADISION	AVENUE, 21S	ΓFLOOR	
(Street)			
NEW YORK	NY	10065	
-			
(City)	(State)	(Zip)	

Explanation of Responses:

- 1. 3,417 shares of common stock (the "Common Stock") issued to Julian C. Baker and 4,882 shares of Common Stock issued to Dr. Kelvin M. Neu, respectively, a principal and an employee of Baker Bros. Advisors LP (the "Adviser") pursuant to the Issuer's 2013 Stock Incentive Plan (the "Stock Incentive Plan") in lieu of director retainer fees of \$8,750 and \$12,500, respectively. The shares of Common Stock are fully vested. Julian C. Baker and Dr. Neu serve on the Issuer's Board of Directors (the "Board") as representatives of the Funds (as defined below). Dr. Neu also serves on the Compensation Committee of the Board for which he receives additional director retainer fees.
- 2. Pursuant to the policies of the Adviser, Julian C. Baker and Dr. Neu do not have any right to the pecuniary interest in the Issuer's securities issued in lieu of director retainer fees and the Funds (as defined below) are entitled to an indirect proportionate pecuniary interest in the securities issued in lieu of director fees. 667, L.P. ("667"), Baker Brothers Life Sciences, L.P. ("Life Sciences") and 14159, L.P. ("14159", and together with 667, and Life Sciences, the "Funds") each owns an indirect proportionate pecuniary interest in the shares of Common Stock. Solely as a result of their ownership interest in the general partners of the general partners of the Funds, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in the shares of Common Stock issued in lieu of director retainer fees (i.e., no direct pecuniary interest).
- 3. As a result of Felix J. Baker's and Julian C. Baker's ownership interest in Baker Biotech Capital (GP), LLC, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in 682,377 shares of common stock of the Issuer beneficially owned by 667, a limited partnership of which the sole general partner is Baker Biotech Capital, L.P., a limited partnership of which the sole general partner is Baker Biotech Capital (GP),LLC, due to Baker Biotech Capital, L.P. is right to receive an allocation of a portion of the profits from 667. Includes beneficial ownership of 75,905 shares issued pursuant to the Stock Incentive Plan in lieu of director retainer fees, of which the fund may be deemed to own a portion.
- 4. As a result of Felix J. Baker's and Julian C. Baker's ownership interest in Baker Brothers Life Sciences Capital (GP), LLC, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest 6,380,737 shares of common stock of the Issuer beneficially owned by Life Sciences, a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital, L.P., a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital, L.P., be right to receive an allocation of a portion of the profits from Life Sciences. Includes beneficial ownership of 75,905 shares issued pursuant to the Stock Incentive Plan in lieu of director retainer fees, of which the fund may be deemed to own a portion.
- 5. As a result of Felix J. Baker's and Julian C. Baker's ownership interest in 14159 Capital (GP), LLC, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in 111,010 shares of common stock of the Issuer beneficially owned by 14159, a limited partnership of which the sole general partner is 14159 Capital, L.P., a limited partnership of which the sole general partner is 14159 Capital, L.P. is right to receive an allocation of a portion of the profits from 14159. Includes beneficial ownership of 75,905 shares issued pursuant to the Stock Incentive Plan in lieu of director retainer fees, of which the fund may be deemed to own a portion.
- 6. The Adviser serves as the Investment Adviser to the Funds. In connection with the services provided by the Adviser, the Adviser receives an asset-based management fee that does not confer any pecuniary interest in the securities held by the Funds. Baker Bros. Advisors (GP) LLC (the "Adviser GP") is the Adviser's sole general partner. Julian C. Baker and Felix J. Baker are principals of the Adviser GP. The Adviser has complete and unlimited discretion and authority with respect to the investment and voting power of the securities held by the Funds. The general partners of the Funds relinquished to the Adviser all discretion and authority with respect to the investment and voting power of the securities held by the Funds. Julian C. Baker, Felix J. Baker, the Adviser GP and the Adviser disclaim beneficial ownership of the securities held directly by the Funds except to the extent of their pecuniary interest therein, and this report shall not be deemed an admission that any of Julian C. Baker, Felix J. Baker, the Adviser GP or the Adviser GP or any other purpose.
- 7. The disclosure of the grant of Common Stock reported on this form is the sum of two grants totaling 8,299 shares. The 8,299 shares are reported for each of the Funds as each has an indirect pecuniary interest.

Remarks

Remarks: Julian C. Baker and Dr. Kevin M. Neu, respectively, a principal and an employee of Baker Bros. Advisors LP (the "Adviser") are directors of Idera Pharmaceuticals, Inc. ("the Issuer"). By virtue of their representation on the Board of Directors of the Issuer, for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, the reporting persons are deemed directors by deputization of the Issuer.

/s/ Julian C. Baker	10/05/2016
By: Baker Bros. Advisors (GP) LLC Name: Scott L. Lessing Title: President /s/ Scott L. Lessing	10/05/2016
BAKER BROS. ADVISORS LP Name: Scott L. Lessing Title: President /s/ Scott L. Lessing	10/05/2016
Baker Bros. Advisors LP, Mgmt. Co. and Inv. Adviser to BAKER BROTHERS LIFE SCIENCES, L.P., pursuant to authority granted by Baker Brothers Life Sciences Capital, L.P., GP to Baker Brothers Life Sciences, L.P Name: Scott L. Lessing, Title: President /s/	10/05/2016
Baker Bros. Advisors LP, Mgmt. Co. and Inv. Adviser to 14159, L.P., pursuant to authority granted by 14159 Capital, L.P., GP to 14159, L.P. Name: Scott L. Lessing, Title: President /s/ Scott L. Lessing	10/05/2016
/s/ Felix J. Baker	10/05/2016

Baker Bros. Advisors, LP, Mgmt. Co. and Inv. Adviser to 667, L.P., pursuant to authority granted by Baker Biotech Capital, L.P., GP to 667, L.P. Name: Scott L. Lessing, Title: President /s/

** Signature of Reporting Person

Scott L. Lessing

10/05/2016

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.