FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL					
OMB Number:	3235-0287				
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7. Nature of Indirect Beneficial Ownership (Instr. 4)

11. Nature of Indirect Beneficial Ownership (Instr.

Footnotes⁽¹⁾⁽²⁾⁽³⁾

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 Se	ction 30(n) or tr	ie investr	nent	Comp	oan	y Act of 1	940						
1. Name and Address of Reporting Person* BAKER BROS. ADVISORS LP				2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDRA]								(Ch	Relationship of Reporting Person (Check all applicable) X Director			s) to I			
(Last) (First) (Middle) 3. Da					5. Date of Earliest Transaction (Month/Day/Year) 06/07/2017									fficer (give title elow)		ther (elow)	specify		
(Street)				4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person						
NEW YORK NY 10065														X Form filed by More than One Reporting Person					
(City)	(Sta		(Zip)	Desire	4:	0	4 /	•		D:				- 6 - : - :		1			
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day			tion 2A. Deem		emed ion Dat	te, Trai	3. 4. Transaction Di Code (Instr. an		4. Dis	4. Securities Acquired Disposed Of (D) (Instr. and 5)		ed (A) o	Sec Ber Ow	Amount of curities neficially ned	6. Owners Form: Dire (D) or Indirect (I)	ect	of Indired Beneficia Ownershi		
								Cod	le	v	An	mount (A) or (D)		Price	Re _l Tra	lowing ported insaction(s) str. 3 and 4)	(Instr. 4)		(Instr. 4)
			Table II -									of, or Be			wned				
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, any (Month/Day/Yea	Code (5. Number Derivative Securities Acquired Disposed (Instr. 3,	e s I (A) or I of (D)	6. Date Ex Expiration (Month/D	Date	•	i	7. Title and Amount of Securities Underlying Derivative Security (Ins and 4)		g	8. Price of Derivative Security (Instr. 5)	derivative Securities Beneficially Owned Following	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Ownership (Insti	
				Code	v	(A)	(D)	Date Exercisab		xpiratio ate	n	Title		ount or mber of res		Reported Transaction(s) (Instr. 4)			
Non-Qualified Stock Option (right to buy)	\$1.63	06/07/2017		A		100,000		(1)	00	5/07/20	027	Commo Stock	n 10	0,000	\$0	100,000	I	See Footnotes ⁽¹⁾⁽²⁾	
I		Reporting Person																	
(Last) 667 MADI	,	First) NUE, 21ST F	(Middle	·)		-													
(Street) NEW YOR	K i	NY	10065	5		- -													
(City)	(State)	(Zip)																
1. Name and 667, L.P		Reporting Perso	on [*]			_													
(Last) 667 MADI	,	First) ENUE, 21ST F	(Middle	•)															
(Street) NEW YOR	K 1	NY	10065	5		_													
(City)	(State)	(Zip)																
Í						- 1													

1. Name and Address		_				
Baker Bros. Ad	dvisors (GP) LL0	<u>J</u>				
(Last)	(First)	(Middle)				
	VENUE, 21ST FLOC					
-						
(Street)						
NEW YORK	NY	New York				
(City)	(State)	(Zip)				
1. Name and Address	of Reporting Person*					
BAKER JULIA	<u>N</u>					
(Last)	(First)	(Middle)				
	ENUE, 21ST FLOOI					
(Street)						
NEW YORK	NY	10065				
(City)	(State)	(Zip)				
1. Name and Address	of Reporting Person*					
Baker Brothers	s Life Sciences	<u>LP</u>				
(Last)	(First)	(Middle)				
667 MADISION A	VENUE, 21ST FLOC)R				
(044)						
(Street) NEW YORK	NY	10065				
(City)	(State)	(Zip)				
1. Name and Address	of Reporting Person*					
<u>14159, L.P.</u>						
(Last)	(First)	(Middle)				
667 MADISION A	VENUE, 21ST FLOC	OR				
(Street)						
NEW YORK	NY	10065				
-						
(City)	(State)	(Zip)				
Name and Address of Reporting Person*						
BAKER FELIX						
(Last)	(First)	(Middle)				
667 MADISON AVENUE, 21ST FLOOR						
(Street)						
NEW YORK	NY	10065				
(City)	(State)	(7in)				
(City)	(State)	(Zip)				

Explanation of Responses:

^{1. 50,000} non-qualified stock options ("Stock Options") convertible solely into common shares of Idera Pharmaceuticals, Inc. (the "Issuer") were granted to Julian C. Baker, a principal and 50,000 Stock Options were granted to Dr. Kelvin M. Neu, an employee of Baker Bros. Advisors LP (the "Adviser"). The Stock Options granted pursuant to the Issuer's 2013 Stock Incentive Plan have a strike price of \$1.63 and vest with respect to one third of the underlying shares on the first anniversary of the date of grant and the balance of the underlying shares vest in eight equal quarterly installments following the first anniversary of the date of grant, subject to continued service as a director.

- 2. Julian C. Baker and Dr. Kelvin M. Neu serve on the Issuer's Board of Directors (the "Board") as representatives of 667, L.P. ("667"), Baker Brothers Life Sciences, L.P. ("Life Sciences"), 14159, L.P. ("14159", and together with 667, and Life Sciences, the "Funds" and their affiliates). Pursuant to the policies of the Adviser, Julian C. Baker and Dr. Kelvin M. Neu do not have any right to any of the Issuer's securities issued as part of their service on the Board and the Funds are entitled to receive all the pecuniary interest in the securities issued. The Funds each own an indirect proportionate pecuniary interest in the Stock Options. Solely as a result of Felix J. Baker's and Julian C. Baker may be deemed to have an indirect pecuniary interest in the stock options (i.e. no direct pecuniary interest).
- 3. 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. 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.

Remarks:

Remarks: Julian C. Baker and Dr. Kelvin M. Neu, respectively, a principal and an employee of Baker Bros. Advisors LP (the "Advisor") 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

BAKER BROS. ADVISORS LP Name: Scott L. Lessing Title: President /s/ Scott L. Lessing	06/08/2017
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/ Scott L. Lessing	06/08/2017
By: Baker Bros. Advisors (GP) LLC Name: Scott L. Lessing Title: President /s/ Scott L. Lessing	06/08/2017
/s/ Julian C. Baker	06/08/2017
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/	06/08/2017
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	06/08/2017
/s/ Felix J. Baker	06/08/2017
** 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.

^{*} 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).