FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL							
OMB Number:	3235-0287						
Estimated average burden							

Check this box if no longer subject to Section 16. Form 4 or Form 5

(First)

860 WASHINGTON STREET, 3RD FLOOR

NY

(State)

1. Name and Address of Reporting Person*

(Last)

(Street) **NEW YORK**

(City)

(Middle)

10014

(Zip)

obligati	ions may contir tion 1(b).		File			to Section on 30(h) o							34		ho	urs per re	sponse:	0.5
		Reporting Person* ADVISORS	<u>LP</u>	II		Name ar A PHA						<u>C.</u> [i. Relationship Check all app X Direct	olicable)	X	10% C	
(Last) 360 WAS 3RD FLO	SHINGTON	,	Middle)		Date o	of Earliest	Transa	action ((Month	n/Day/Ye	ear)			belov	w) ``		below)	
Street) NEW Y(ORK N	Y 1	10014	- 4. -	If Ame	endment,	Date of	Origin	ıal File	d (Mont	th/Day/Y	'ear)			n filed by	One Rep	g (Check A orting Pers n One Rep	on
(City)	(St		Zip)										<u></u>					
. Title of Security (Instr. 3) 2. Transacti		2. Transaction	2/ Ex r) if	2A. Deeme Execution		3. Transaction		d, Disposed of, or Benef 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)		5. A Sec Be Ow	Amount of curities neficially ned Following	6. Owi Form: (D) or	nership Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
							Code	v	Amo	unt	(A) or (D)	Price	Tra	ported insaction(s) str. 3 and 4)				
Common	Stock		07/02/2018				A		16	,383	A	\$1.32		4,132,528		I	See foot (3)(6)(7)	notes ⁽¹⁾⁽²⁾
Common	Stock		07/02/2018				A		16	,383	A	\$1.32	3	34,222,983		I	See foot: (4)(6)(7)	notes ⁽¹⁾⁽²⁾
Common	Stock		07/02/2018				A		16	,383	A	\$1.32		632,599		I	See foot: (5)(6)(7)	notes ⁽¹⁾⁽²⁾
		Та	able II - Derivat (e.g., p															
. Title of erivative ecurity nstr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Trans	saction e (Instr.	5. Nun	nber ative ities red sed	-	Exerc	isable a	nd 7. Ar Se Ur De Se	Title and mount of ecurities nderlying erivative ecurity (In ad 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Followin Reported Transact (Instr. 4)	re Ces Fally C g (l distion(s)	O. Ownership Form: Direct (D) or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownershi (Instr. 4)
				Code	e V	(A)	(D)	Date Exercis	sable	Expirat Date	tion Tit	or Nur of	ount nber ires					
		Reporting Person* ADVISORS	LP															
(Last)	SHINGTON	(First)	(Middle)															
Street)	ORK	NY	10014															
(City)		(State)	(Zip)															
. Name ar 14159,		Reporting Person*																

<u>667, L.P.</u>								
(Last) (First) (Middle) 860 WASHINGTON STREET, 3RD FLOOR								
(Street) NEW YORK	NY	10014						
(City)	(State)	(Zip)						
1. Name and Address of Reporting Person* <u>Baker Bros. Advisors (GP) LLC</u>								
(Last) 860 WASHINGTO 3RD FLOOR	(First) ON STREET	(Middle)						
(Street) NEW YORK	NY	10014						
(City)	(State)	(Zip)						
	1. Name and Address of Reporting Person* Baker Brothers Life Sciences LP							
(Last) 860 WASHINGTO 3RD FLOOR	(First) ON STREET	(Middle)						
(Street) NEW YORK	NY	10014						
(City)	(State)	(Zip)						
1. Name and Address of Reporting Person* BAKER FELIX								
(Last) (First) (Middle) 860 WASHINGTON STREET 3RD FLOOR								
(Street) NEW YORK	NY	10014						
(City)	(State)	(Zip)						
1. Name and Address of Reporting Person* BAKER JULIAN								
(Last) 860 WASHINGTO	(Last) (First) (Middle) 860 WASHINGTON STREET, 3RD FLOOR							
(Street) NEW YORK	NY	10014						
(City)	(State)	(Zip)						

Explanation of Responses:

- 1. 6,629 shares of common stock (the "Common Stock") issued to Julian C. Baker and 9,754 shares of Common Stock issued to Dr. Kelvin M. Neu, respectively, a principal and a full-time employee of Baker Bros. Advisors LP (the "Adviser") pursuant to the 2013 Stock Incentive Plan (the "Stock Incentive Plan") of Idera Pharmaceuticals, Inc. (the "Issuer") in lieu of director retainer fees of \$8,750 and \$12,875, 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 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 4,132,528 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.'s right to receive an allocation of a portion of the profits from 667. Includes beneficial ownership of 158,458 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 34,222,983 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., to to Baker Brothers Life Sciences Capital, L.P.'s right to receive an allocation of a portion of the profits from Life Sciences. Includes beneficial ownership of 158,458 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 632,599 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., a limited partnership of which the sole general partner is 14159 Capital, L.P. a limited partnership of 158,458 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 is a beneficial owner of such securities for purposes of Section 16 or any other purpose.
- 7. The disclosure of the grant of Common Stock reported on this form is the sum of two grants totaling 16,383 shares. The 16,383 shares are reported for each of the Funds as each has an indirect pecuniary interest.

Remarks

Remarks: Julian C. Baker and Dr. Kelvin M. Neu, respectively, a principal and a full-time 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.

By: Baker Bros. Advisors LP, Name: Scott L. Lessing, Title: 07/05/2018 President /s/ Scott L. Lessing Baker Bros. Advisors LP. Mgmt. Co. and Inv. Adviser to 14159, L.P., pursuant to 07/05/2018 authority granted by 14159 Capital, L.P., GP to 14159, L.P. Name: Scott L. Lessing, Title: President /s/ Scott L. Lessing Baker Bros. Advisors LP, Mgmt. Co. and Inv. Adviser to 667, L.P., pursuant to authority granted by Baker Biotech 07/05/2018 Capital, L.P., GP to 667, L.P. Name: Scott L. Lessing, Title: President /s/ Scott L. Lessing By: Baker Bros. Advisors (GP) LLC, Name: Scott L. Lessing, 07/05/2018 Title: President /s/ Scott L. Lessing Baker Bros. Advisors LP, Mgmt. Co. and Inv. Adviser to **BAKER BROTHERS LIFE** SCIENCES, L.P., pursuant to authority granted by Baker 07/05/2018 Brothers Life Sciences Capital, L.P., GP to Baker Brothers Life Sciences, L.P., Name: Scott L. Lessing, Title: President /s/ /s/ Felix J. Baker 07/05/2018 /s/ Julian C. Baker 07/05/2018

** 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.