FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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 obligations may continue. See Instruction 1(b).

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		Reporting Person* ADVISORS	<u>LP</u>	II		A PI			or Trading CEUT			<u>INC.</u> [(Check all a	pplicable) ector	g Person(s) to Is X 10% C)wner
(Last) (First) (I 860 WASHINGTON STREET			(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 10/01/2018									icer (give title low)	Other below)	(specify	
3RD FLO							nt Doto	of Or	iginal File		ath/D	ov/Voor)		6 Individua	or loint/Croup	Filing (Check A	pplicable
(Street) NEW YO	ORK N	Y	10014	_ 4. 1	ii Aine	mume	ni, Daie	: 01 O1	igiliai File	a (IVIOI	III I/ De	ay/Teal)		Line) Fo	rm filed by One	Reporting Perse than One Rep	on
(City)	(St		(Zip)														
		Tab	le I - Non-Deri	vativ	e Se	curit	ies A	cqui	red, Di	spos	ed c	of, or Bo	enefic	cially Ow	ned		
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	Execu	Execution Date, if any		3. Transaction Code (Instr. 8)		4. Securities Acquire Disposed Of (D) (Inst and 5)			tr. 3, 4 Secu Bene Own Follo		ficially ed wing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
						Code	v	Amount	(A	A) or D)	Price		rted action(s) . 3 and 4)				
Common Stock		10/01/2018				A		2,340)	A	\$8.71	5	18,905	I	I See footnotes(1)(2)(3)(4) (7)(8)(9)		
Common Stock		10/01/2018			A		2,340	J	A	\$8.71	4,280,212		I	See footnotes ⁽¹⁾⁽²⁾⁽³⁾⁽⁵⁾ (7)(8)(9)			
Common Stock		10/01/2018				A		2,34	0	A	\$8.71	}	31,414	I	See footnote (7)(8)(9)	2S ⁽¹⁾⁽²⁾⁽³⁾⁽⁶⁾	
		Ta	able II - Deriva (e.g., p									or Ben ole secu			d		
1. Title of Derivative Security (Instr. 3)	ative Conversion Date or Exercise (Month/Day/Year)		3A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr. 8)		of Dei Sec Aci (A) Dis of (f		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price o Derivative Security (Instr. 5)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Dat Exe	e ercisable	Expira Date	ation		Amoun or Numbe of Shares				
		Reporting Person* ADVISORS	LP														
(Last) 860 WAS 3RD FLO	SHINGTON OOR	(First) I STREET	(Middle)														
(Street)					_												

BAKER BROS.	ADVISORS LP	
(Last)	(First)	(Middle)
860 WASHINGTON	N STREET	
3RD FLOOR		
(Street)		
NEW YORK	NY	10014
(City)	(State)	(Zip)
1. Name and Address of 14159, L.P.	f Reporting Person [*]	
(Last)	(First)	(Middle)
860 WASHINGTON	N STREET, 3RD FLO	OOR
(Street)		
NEW YORK	NY	10014
(City)	(State)	(Zip)
1. Name and Address of	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* Baker Bros. Advisors (GP) LLC							
(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) 860 WASHINGTO 3RD FLOOR	(First) ON STREET	(Middle)					
(Street) NEW YORK	NY	10014					
(City)	(State)	(Zip)					
1. Name and Address of Reporting Person* BAKER JULIAN							
(Last) (First) (Middle) 860 WASHINGTON STREET, 3RD FLOOR							
(Street) NEW YORK	NY	10014					
(City)	(State)	(Zip)					

Explanation of Responses:

- 1. This filing reflects a one-for-eight reverse split of the common stock of Idera Pharmaceuticals, Inc. (the "Issuer") effective July 27, 2018. 862 shares of common stock (the "Common Stock") issued to Julian C. Baker and 1,478 shares of Common Stock issued to Dr. Kelvin M. Neu, respectively, a managing member of Baker Bros. Advisors (GP) LLC (the "Adviser GP") and a full-time employee of Baker Bros. Advisors LP (the "Adviser") pursuant to the 2013 Stock Incentive Plan (the "Stock Incentive Plan") of the Issuer in lieu of director retainer fees of \$7,500 and \$12,875, respectively.
- 2. The shares of Common Stock are fully vested. Dr. Neu serves 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. Julian C. Baker resigned from the Issuer's Board effective September 18, 2018, and thus his compensation for past service on the Board is prorated for this quarter.
- 3. 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).
- 4. 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 518,905 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 22,147 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 Baker Brothers Life Sciences Capital (GP), LLC, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest 4,280,212 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 (GP), LLC, due 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 22,147 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. 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 81,414 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., to to 14159 Capital, L.P., is right to receive an allocation of a portion of the profits from 14159. Includes beneficial ownership of 22,147 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.
- 7. The disclosure of the grant of Common Stock reported on this form is the sum of two grants totaling 2,340 shares. The 2,340 shares are reported for each of the Funds as each has an indirect pecuniary interest
- 8. 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. The Adviser GP is the Adviser's sole general partner. Julian C. Baker and Felix J. Baker are managing members 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.
- 9. 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.

Remarks:

Remarks: Dr. Kelvin M. Neu, a full-time employee of Baker Bros. Advisors LP (the "Adviser") is a director of Idera Pharmaceuticals, Inc. ("the Issuer"). By virtue of his representation on the Board of Directors of the Issuer (the "Board"), 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. Julian C. Baker, a managing member of Baker Bros. Advisors (GP) LLC resigned from the Board effective September 18, 2018. This filing reflects a one-for-eight reverse split of the Issuer's common stock effected on July 27, 2019

By: Baker Bros. Advisors LP, Name: Scott L. Lessing, Title: 10/03/2018 President /s/ Scott L. Lessing Baker Bros. Advisors LP, Mgmt. Co. and Inv. Adviser to 14159, L.P., pursuant to authority granted by 14159 10/03/2018 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 10/03/2018 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, 10/03/2018 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 10/03/2018 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 10/03/2018 /s/ Julian C. Baker 10/03/2018 ** 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.