FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Washington, D.C. 2054

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(h)

	ions may contiretion 1(b).	nue. See	File							rities Exc						r	nours per	response) :	0.5	
1. Name and Address of Reporting Person* BAKER BROS. ADVISORS LP				2. I <u>A</u> ((Check all applicable Director			X 10% Owner			wner	
(Last) 667 MA	Last) (First) (Middle) 67 MADISON AVENUE, 21ST FLOOR				3. Date of Earliest Transaction (Month/Day/Year) 09/20/2016									Officer (give title Other (specify below) below)							
(Street) NEW YORK NY 10065				4. 1	f Ame	endment	nt, Date of Origin		nal Filed (Month/Da			ay/Year)		6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person X Porrege A Porrege A Porrege Form Siled by More than One Reporting						on	
(City)	(SI	tate) (Zip)												A Pers	on			·		
Table 1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	2A. Exe if ar	2A. Deemed Execution Date if any (Month/Day/Yea		3. Transa Code (d, Disposed o 4. Securities Acqu Disposed Of (D) (II		cquir	quired (A) or		5. Amoun Securities Beneficia Owned Fo Reported		of ly	6. Own Form: I (D) or II (I) (Inst	Direct ndirect	Indir Bene	eficial nership	
							Code	v	Amoi	unt	(A) o (D)	or	Price		Transactio (Instr. 3 ar				(.,	
Common	Stock														2,26	50	D	(1)			
Common	Stock			<u> </u>								\downarrow			2,26	50	D	(2)			
Common Stock			09/20/2016				P		294,707		A		\$12.25 ⁽³⁾		1,119,075		I		See Footnotes ⁽⁴⁾⁽⁷⁾		
Common Stock			09/20/2016				P		2,476,348		A		\$12.25 ⁽³⁾		9,404,467		I		See Footnotes ⁽⁵⁾⁽⁷⁾		
Common	Stock		09/20/2016				P		12	2,550	A	A \$13.14		7 ⁽⁶⁾ 1,131		625	I		See Footnotes ⁽⁴⁾⁽⁷⁾		
		Та	ble II - Derivati (e.g., pu												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. Transactio Code (Instr 8)		5. Nu	mber 6. Dat Expira (Mont rities ired)		e Exercisable and ation Date h/Day/Year)		nd	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price of Derivative Security (Instr. 5)		9. Num derivat Securit Benefic Owned Followi Report Transa (Instr. 4	ive ies cially ing ed ction(s)	10. Owners Form: Direct (or Indii (I) (Inst	(D) rect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)		Date Exerc	isable	Expirati Date		Title	Amount or Number of Shares								
		Reporting Person* ADVISORS	<u>LP</u>																		
(Last) (First) (Middle) 667 MADISON AVENUE, 21ST FLOOR																					
(Street) NEW Y	ORK	NY	10065																		
(City)		(State)	(Zip)																		
		Reporting Person* visors (GP) LI	<u></u>																		

(Middle)

New York

(Zip)

(Last) (First) (M 667 MADISION AVENUE, 21ST FLOOR

NY

(State)

(Street)
NEW YORK

(City)

Name and Address of Reporting Person* BAKER FELIX								
(Last)	(First)	(Middle)						
667 MADISON	AVENUE, 21ST	FLOOR						
(Street) NEW YORK	NY	10065						
(City)	(State)	(Zip)						
1. Name and Addres BAKER JULI		con*						
(Last)	(First)	(Middle)						
667 MADISON AVENUE, 21ST FLOOR								
(Street)								
NEW YORK	NY	10065						
(City)	(State)	(Zip)						

Explanation of Responses:

- 1. Common shares held directly by Felix J. Baker and for which Felix J. Baker has sole beneficial ownership. These shares were received in an in kind pro rata distribution from an affiliated investment fund in January 2015 without consideration
- 2. Common shares held directly by Julian C. Baker and for which Julian C. Baker has sole beneficial ownership. These shares were received in an in kind pro rata distribution from an affiliated investment fund in January 2015 without consideration.
- 3. On September 20, 2016, Baker Brothers Life Sciences, L.P. ("Life Sciences") and 667, L.P. ("667", and together with Life Sciences, the "Funds") purchased 294,707 shares and 2,476,348 shares, respectively, of the Common Stock of Aquinox Pharmaceuticals, Inc. (the "Issuer") pursuant to an underwritten public offering. The Funds purchased the shares of Common Stock at the public offering price of \$12.25 per
- 4. After giving effect to the transactions reported herein, and as a result of their ownership interest in Baker Biotech Capital (GP), LLC, Julian C. Baker and Felix J. Baker may be deemed to have an indirect pecuniary interest in the Issuer's shares of Common Stock reported in column 5 of Table I directly held 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, L.P., 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, L.P., 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, L.P., 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, L.P., 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, L.P., 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, L.P., 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, L.P., 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, L.P., 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, L.P., a limited partnership of which the sole general partner is Baker Biotech Capital, L.P., a limited partnership of which the sole general partn
- 5. After giving effect to the transactions reported herein, and as a result of their ownership interest in Baker Brothers Life Sciences Capital (GP), LLC, Julian C. Baker and Felix J. Baker may be deemed to have an indirect pecuniary interest in the Issuer's shares of Common Stock reported in column 5 of Table I directly held 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., 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., 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., 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., 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., 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., 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., 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., 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., a limited partnership of which the sole general partner is allocation of a portion of the profits from Life Sciences.
- 6. The price reported in Column 4 is a weighted average price. These shares were traded by the Funds in multiple transactions at prices ranging from \$12.89 to \$13.55, inclusive. The reporting persons undertake to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares traded at each separate price within the range set forth in this footnote.
- 7. Baker Bros. Advisors LP (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. 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:

Baker Bros. Advisors LP: Name: Scott L. Lessing Title: 09/21/2016 President /s/ Scott L. Lessing By: Baker Bros. Advisors (GP) LLC, Name: Scott L. Lessing, 09/21/2016 Title: President /s/ Scott L. Lessing /s/ Felix J. Baker 09/21/2016 09/21/2016

/s/ Julian C. Baker ** 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.