FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. <i>See</i> Instruction 1(b).
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(First)

667 MADISON AVENUE, 21ST FLOOR

(Last)

(Middle)

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

OMB APPRO	DVAL
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Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned												
(Street) NEW YORK (City)	NY (State)	10065 (Zip)					Line) X	Form filed b	y One F	Reporti		
(Last) 667 MADISON	(First) AVENUE, 21ST F	(Middle)	3. Date of Earliest T 03/15/2016 4. If Amendment, Di	,	Ionth/Day/Year)	ar)	6 Indivi	below)	Group F	ilina (C	below)	
1. Name and Address of Reporting Person* BAKER BROS. ADVISORS LP			2. Issuer Name and Ticker or Trading Symbol <u>AQUINOX PHARMACEUTICALS, INC</u> [AQXP]					5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner Officer (give title Other (specify				

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 Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		4)	
Common Stock								2,260	D ⁽¹⁾		
Common Stock								2,260	D ⁽²⁾		
Common Stock	03/15/2016		Р		3,374	A	\$7.8786 ⁽³⁾	781,421	Ι	See Footnote ⁽⁴⁾⁽¹⁰⁾	
Common Stock	03/15/2016		Р		30,986	A	\$7.8786 ⁽³⁾	6,533,759	Ι	See Footnotes ⁽⁵⁾⁽¹⁰⁾	
Common Stock	03/15/2016		Р		7,420	A	\$8.0257(6)	788,841	I	See Footnotes ⁽⁴⁾⁽¹⁰⁾	
Common Stock	03/15/2016		Р		68,132	A	\$8.0257(6)	6,601,891	I	See Footnotes ⁽⁵⁾⁽¹⁰⁾	
Common Stock	03/16/2016		Р		1,289	A	\$7.6993 ⁽⁷⁾	790,130	I	See Footnotes ⁽⁴⁾⁽¹⁰⁾	
Common Stock	03/16/2016		Р		11,840	A	\$7.6993 ⁽⁷⁾	6,613,731	I	See Footnotes ⁽⁵⁾⁽¹⁰⁾	
Common Stock	03/16/2016		Р		20,192	A	\$7.9084 ⁽⁸⁾	810,322	Ι	See Footnotes ⁽⁴⁾⁽¹⁰⁾	
Common Stock	03/16/2016		Р		185,413	A	\$7.9084 ⁽⁸⁾	6,799,144	Ι	See Footnotes ⁽⁵⁾⁽¹⁰⁾	
Common Stock	03/16/2016		Р		14,046	A	\$8.156 ⁽⁹⁾	824,368	I	See Footnotes ⁽⁴⁾⁽¹⁰⁾	
Common Stock	03/16/2016		Р		128,975	A	\$8.156 ⁽⁹⁾	6,928,119	I	See Footnotes ⁽⁵⁾⁽¹⁰⁾	

 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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 (Month/Day/Year)	4. Transa Code (8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
1. Name and Address of Reporting Person [*] BAKER BROS, ADVISORS LP															

(Street) NEW YORK	NY	10065	
	111	10005	
(City)	(State)	(Zip)	
1. Name and Addres	s of Reporting Perso	on*	
Baker Bros. A	<u>dvisors (GP)</u>	LLC	
(Last)	(First)	(Middle)	
667 MADISION	AVENUE, 21ST	FLOOR	
(Street)			
NEW YORK	NY	New York	
(City)	(State)	(Zip)	
1. Name and Addres BAKER FEL			
		(Middle)	
BAKER FEL	IX (First)	(Middle)	
BAKER FEL	IX (First)	(Middle)	
BAKER FEL (Last) 667 MADISON	(First) AVENUE, 21ST	(Middle)	
BAKER FEL (Last) 667 MADISON (Street)	(First) AVENUE, 21ST	(Middle) FLOOR	
BAKER FEL (Last) 667 MADISON (Street) NEW YORK	IX (First) AVENUE, 21ST NY (State) s of Reporting Perso	(Middle) FLOOR 10065 (Zip)	
BAKER FEL (Last) 667 MADISON (Street) NEW YORK (City) 1. Name and Address	IX (First) AVENUE, 21ST NY (State) s of Reporting Perso	(Middle) FLOOR 10065 (Zip)	
BAKER FEL (Last) 667 MADISON (Street) NEW YORK (City) 1. Name and Addres BAKER JUL	IX (First) AVENUE, 21ST NY (State) s of Reporting Person IAN	(Middle) FLOOR 10065 (Zip) on* (Middle)	
BAKER FEL (Last) 667 MADISON (Street) NEW YORK (City) 1. Name and Addres BAKER JUL	IX (First) AVENUE, 21ST NY (State) s of Reporting Perso IAN (First)	(Middle) FLOOR 10065 (Zip) on* (Middle)	
BAKER FEL (Last) 667 MADISON (Street) NEW YORK (City) 1. Name and Address BAKER JUL (Last) 667 MADISON	IX (First) AVENUE, 21ST NY (State) s of Reporting Perso IAN (First) AVENUE, 21ST	(Middle) FLOOR 10065 (Zip) on* (Middle)	

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. The price reported in Column 4 is a weighted average price. These shares were traded by the Funds(as defined below) in multiple transactions at prices ranging from \$7.77 to \$8.00, 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.

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, L.P. ("667"), 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.

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 Baker Brothers Life Sciences, L.P. ("Life Sciences" and together with 667, the "Funds"), a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital, L.P.'s right to receive an 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 \$7.89 to \$8.20, 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. 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 \$7.68 to \$7.70, 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.

8. 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 \$7.71 to \$8.01, 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.

9. 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 \$7.95 to \$8.50, 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.

10. 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 and authority with respect to the investment and voting power of the securities held by the Funds. 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:

Name: Scott L. Lessing Title:
President /s/ Scott L. Lessing03/16/2016By: Baker Bros. Advisors (GP)
LLC, Name: Scott L. Lessing,
Title: President /s/ Scott L.
Lessing03/16/2016

<u>/s/ Felix J. Baker</u>	<u>03/16/2016</u>
<u>/s/ Julian C. Baker</u>	<u>03/16/2016</u>

Date

** Signature of Reporting Person

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.

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