FORM 3

667 MADISON AVENUE, 21ST FLOOR

NY

(State)

10065

(Zip)

(Street)
NEW YORK

(City)

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

OMB APPROVAL

OMB Number: 3235-0104

Estimated average burden
hours per response: 0.5

				31	ECURITIES				hours pe	er response:	0.5
					6(a) of the Securities Exchange A						
BAKER BROS. ADVISORS LP (Last) (First) (Middle) 667 MADISON AVENUE, 21ST FLOOR (Street) NEW YORK NY 10065			2. Date of Event Requiring Statement (Month/Day/Year) 08/07/2015		3. Issuer Name and Ticker or Trading Symbol AQUINOX PHARMACEUTICALS, INC [AQXP]						
					4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner Officer (give title below) Other (specify below)			5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person X Form filed by More than One Reporting Person			
											(City) (Si
1. Title of Security (I	nstr. 4)		able I - Noi	2.	ve Securities Beneficial Amount of Securities eneficially Owned (Instr. 4)	3. Ownersh Form: Direct or Indirect (Instr. 5)	ct (D)	4. Nate		t Beneficial Owne	rship
Common Stock					458,665	I		See F	ootnote ⁽¹⁾⁽³⁾		
Common Stock					3,808,635	I See		See F	See Footnote ⁽²⁾⁽³⁾		
		(e.g			Securities Beneficially nts, options, convertible		s)				
1. Title of Derivative	Security (Instr. 4)		2. Date Exerc Expiration Day/	ate	3. Title and Amount of Secur Underlying Derivative Secur		4. Conve		5. Ownership Form: Direct (D)	6. Nature of Indi Beneficial Owne (Instr. 5)	
			Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Deriva Secur	ative	or Indirect (I) (Instr. 5)		
1. Name and Address BAKER BRO	s of Reporting Person [*] S. ADVISORS LI	<u>)</u>									
(Last) 667 MADISON A	(First) AVENUE, 21ST FLOC	(Middle)									
(Street) NEW YORK	NY	10065									
(City)	(State)	(Zip)									
	of Reporting Person* dvisors (GP) LLC										
(Last) 667 MADISION	(First) AVENUE 21ST FLOO	(Middle)									
(Street) NEW YORK	NY	10065									
(City)	(State)	(Zip)									
1. Name and Address BAKER JULI											
(Last)	(First)	(Middle)									

1. Name and Address BAKER FEL		on [*]							
(Last)	(First)	(Middle)							
667 MADISON	AVENUE, 21ST	FLOOR							
(Street)									
NEW YORK	NY	10065							
(City)	(State)	(Zip)							
1. Name and Address of Reporting Person* Baker Brothers Life Sciences LP									
(Last)	(First)	(Middle)							
667 MADISON AVENUE, 21ST FLOOR									
(Street) NEW YORK	NY	10065							
(City)	(State)	(Zip)							
1. Name and Addres	ss of Reporting Pers	on [*]							
(Last)	(First)	(Middle)							
667 MADISON	AVENUE 21ST	FLOOR							
(Street)									
NEW YORK	NY	10065							
(City)	(State)	(Zip)							

Explanation of Responses:

- 1. 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 458,665 shares of Common Stock of the Issuer beneficially owned by 667, L.P. ("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.
- 2. 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 3,808,635 shares of Common Stock of the Issuer beneficially owned by Baker Brothers Life Sciences, L.P. ("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., due to Baker Brothers Life Sciences Capital, L.P.'s right to receive an allocation of a portion of the profits from Life Sciences.
- 3. Baker Bros. Advisors LP (the "Adviser") serves as the Investment Adviser to 667 and Life Sciences(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 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 or the Adviser of the securities held 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.

Name: Scott L. Lessing Title: 08/10/2015 President /s/ Scott L. Lessing Name: Scott L. Lessing Title: 08/10/2015 President /s/ Scott L. Lessing /s/ Julian C. Baker 08/10/2015 08/10/2015 /s/ Felix J. Baker Baker Bros. Advisors LP, Mgmt. Co. and Inv. Adviser to BAKER BROTHERS LIFE SCIENCES, L.P., pursuant to 08/10/2015 authority granted by Baker **Brothers Life Sciences Capital** L.P., GP to Baker Baker Bros. Advisors LP, Mgmt. Co. and Inv. Adviser to 667, L.P., pursuant to authority granted by Baker Biotech 08/10/2015 Capital, L.P., GP to 667, L.P. Name: Scott L. Lessing, Title: President /s/ Scott L. ** 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 5 (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.