

**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

OMB APPROVAL	
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>BAKER BROS. ADVISORS LP</u>  (Last) (First) (Middle) 667 MADISON AVENUE, 21ST FLOOR  (Street) NEW YORK NY 10065  (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 08/07/2015	3. Issuer Name and Ticker or Trading Symbol <u>AQUINOX PHARMACEUTICALS, INC [ AQXP ]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year) 08/10/2015  6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person <input checked="" type="checkbox"/> Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	2,260 <sup>(1)</sup>	D	
Common Stock	2,260 <sup>(2)</sup>	D	

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

1. Name and Address of Reporting Person* <u>BAKER BROS. ADVISORS LP</u>  (Last) (First) (Middle) 667 MADISON AVENUE, 21ST FLOOR  (Street) NEW YORK NY 10065  (City) (State) (Zip)
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1. Name and Address of Reporting Person* <u>Baker Bros. Advisors (GP) LLC</u>  (Last) (First) (Middle) 667 MADISON AVENUE 21ST FLOOR  (Street) NEW YORK NY 10065  (City) (State) (Zip)
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1. Name and Address of Reporting Person* <u>BAKER JULIAN</u>  (Last) (First) (Middle) 667 MADISON AVENUE, 21ST FLOOR  (Street) NEW YORK NY 10065  (City) (State) (Zip)
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1. Name and Address of Reporting Person \*

BAKER FELIX

(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. This form 3 has been amended to reflect these shares inadvertently omitted from the previous filing.
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. This form 3 has been amended to reflect these shares inadvertently omitted from the previous filing.

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

/s/ Felix J. Baker 08/10/2015

\*\* 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.

**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.**