Quinn Anthony G. Form 4 February 20, 2018

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Check this box

if no longer subject to Section 16.

Form 4 or Form 5 obligations

may continue. See Instruction

SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person *

Quinn Anthony G.

(Last) (First) (Middle)

C/O AEGLEA BIOTHERAPEUTICS, INC., 901 S. MOPAC EXPRESSWAY, SUITE

250

(Street)

(State)

AUSTIN, TX 78746

(Zip)

2. Issuer Name and Ticker or Trading

30(h) of the Investment Company Act of 1940

Symbol

Aeglea BioTherapeutics, Inc. [AGLE]

3. Date of Earliest Transaction (Month/Day/Year)

4. If Amendment, Date Original

Filed(Month/Day/Year)

02/15/2018

5. Relationship of Reporting Person(s) to

Issuer

(Check all applicable)

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

Expires:

response...

Estimated average

burden hours per

_X__ Director 10% Owner X_ Officer (give title Other (specify below)

Interim CEO

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of Security (Instr. 3)

(City)

2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

(Month/Day/Year)

3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially Owned Following Reported

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect (I) (Instr. 4)

Beneficial Ownership (Instr. 4)

Transaction(s) (Instr. 3 and 4)

Price

Common 02/15/2018 Stock

Code M

15,211

Amount

(A)

or

(D)

50,620 5.46

D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

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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. Transactic Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Director Stock Option (right to buy)	\$ 5.46	02/15/2018		M	15,211	<u>(1)</u>	03/17/2026	Common Stock	15,211	

Reporting Owners

Reporting Owner Name / Address	Relationships					
F-	Director	10% Owner	Officer	Other		
Quinn Anthony G. C/O AEGLEA BIOTHERAPEUTICS, INC. 901 S. MOPAC EXPRESSWAY, SUITE 250 AUSTIN, TX 78746	X		Interim CEO			

Signatures

/s/ Charles N. York II, by power of attorney 02/20/2018

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).

The stock option vested and became exercisable as to 1/36th of the shares subject to the option on April 3, 2016, and thereafter vests as to 1/36th of the shares each month in equal installments, until such time as the option is 100% vested, subject to the continuing service of the Reporting Person on each vesting date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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