Aeglea BioTherapeutics, Inc.

Form 3

April 19, 2016

FORM 3

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

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

OMB APPROVAL

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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

30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement Aeglea BioTherapeutics, Inc. [AGLE] **ORBIMED ADVISORS LLC** (Month/Day/Year) 04/12/2016 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) 601 LEXINGTON (Check all applicable) AVENUE, Â 54TH FLOOR (Street) 6. Individual or Joint/Group Director _X__ 10% Owner Officer Other Filing(Check Applicable Line) (give title below) (specify below) Form filed by One Reporting Person NEW YORK, NYÂ 10022 _X_ Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned

1.Title of Security (Instr. 4)

Common Stock

2. Amount of Securities Beneficially Owned (Instr. 4) 3. Ownership Form:

4. Nature of Indirect Beneficial

Ownership (Instr. 5)

Direct (D) or Indirect (I) (Instr. 5)

1,360,224

See footnote (1) (2)

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

SEC 1473 (7-02)

I

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

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

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Date	Expiration	Amount or	or Indirect
Exercisable	Date	Number of	(I)
		Shares	(Instr. 5)

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
ORBIMED ADVISORS LLC 601 LEXINGTON AVENUE 54TH FLOOR NEW YORK, NY 10022	Â	ÂX	Â	Â
OrbiMed Capital GP V LLC 601 LEXINGTON AVENUE 54TH FLOOR NEW YORK, NY 10022	Â	ÂX	Â	Â
ISALY SAMUEL D 601 LEXINGTON AVENUE 54TH FLOOR NEW YORK, NY 10022	Â	ÂX	Â	Â

Signatures

/s/ Samuel D. Isaly, for himself and as Managing Member of OrbiMed Advisors LLC, the Managing Member of OrbiMed Capital GP V LLC

04/18/2016

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
 - These securities are held of record by OrbiMed Private Investments V, LP ("OPI V"). OrbiMed Capital GP V LLC ("GP V") is the sole general partner of OPI V, and OrbiMed Advisors LLC ("Advisors") is the managing member of GP V. Samuel D. Isaly ("Isaly"), a
- (1) natural person, is the managing member of and owner of a controlling interest in Advisors. By virtue of such relationships, GP V, Advisors and Mr. Isaly may be deemed to have voting and investment power over the securities held by OPI V and as a result may be deemed to have beneficial ownership over such securities.
 - This report on Form 3 is jointly filed by GP V, Advisors, and Mr. Isaly. Each of the Reporting Persons disclaims beneficial ownership of the securities reported herein for purposes of Rule 16a-1(a) under the Securities Exchange Act of 1934, as amended (the "Exchange
- (2) Act"), except to the extent of its or his pecuniary interest therein, if any. This report on Form 3 shall not be deemed an admission that any of the Reporting Persons is a beneficial owner of such securities for the purpose of Section 16 of the Exchange Act, or for any other purpose.

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.

Reporting Owners 2