

Aeglea BioTherapeutics, Inc.  
Form SC 13G  
April 14, 2016

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SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934  
(Amendment No. )\*

Aeglea BioTherapeutics, Inc.  
(Name of Issuer)

Common Stock, par value \$0.0001 per share  
(Title of Class of Securities)

00773J 103  
(CUSIP Number)

April 6, 2016  
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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CUSIP No. [ ] 13G Page 2 of 6 Pages

NAMES OF REPORTING PERSONS

1

Novartis Bioventures Ltd.

CHECK THE APPROPRIATE BOX  
IF A MEMBER OF A GROUP (SEE  
INSTRUCTIONS)

2

(a)

(b)

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF  
ORGANIZATION

4

Bermuda

SOLE VOTING POWER

5

0

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON WITH

SHARED VOTING POWER

6

2,310,924

SOLE DISPOSITIVE POWER

7

0

SHARED DISPOSITIVE POWER

8

2,310,924

AGGREGATE AMOUNT  
BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

9

2,310,924

CHECK IF THE AGGREGATE  
AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES (SEE  
INSTRUCTIONS)

10

PERCENT OF CLASS  
REPRESENTED BY AMOUNT IN  
ROW (9)

11

17.2%

TYPE OF REPORTING PERSON  
(SEE INSTRUCTIONS)

12

CO

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CUSIP No. [ ]3G Page 3 of 6 Pages

NAMES OF REPORTING PERSONS

1

Novartis AG

CHECK THE APPROPRIATE BOX  
IF A MEMBER OF A GROUP (SEE  
INSTRUCTIONS)

2

(a)

(b)

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF  
ORGANIZATION

4

Switzerland

SOLE VOTING POWER

5

0

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON WITH

SHARED VOTING POWER

6

2,310,924

SOLE DISPOSITIVE POWER

7

0

SHARED DISPOSITIVE POWER

8

2,310,924

AGGREGATE AMOUNT  
BENEFICIALLY OWNED BY EACH  
REPORTING PERSON

9

2,310,924

CHECK IF THE AGGREGATE  
AMOUNT IN ROW (9) EXCLUDES  
CERTAIN SHARES (SEE  
INSTRUCTIONS)

10

PERCENT OF CLASS  
REPRESENTED BY AMOUNT IN  
ROW (9)

11

17.2%

TYPE OF REPORTING PERSON  
(SEE INSTRUCTIONS)

12

CO

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Item 1(a). Name of Issuer:

Aeglea BioTherapeutics, Inc.

Item 1(b). Address of Issuer's Principal Executive Offices:

901 S. MoPac Expressway, Barton Oaks Plaza One, Ste. 250, Austin, TX 78746.

Item 2(a). Name of Person Filing:

This statement is filed on behalf of the following persons with respect to shares of Common Stock of the Issuer:

- (i) Novartis Bioventures Ltd., a Bermuda corporation, with respect to shares held by it; and
- (ii) Novartis AG, a Switzerland corporation, as the publicly owned parent of Novartis Bioventures Ltd., with respect to the shares held by Novartis Bioventures Ltd

The foregoing persons are hereinafter referred to collectively as the "Reporting Persons."

Item 2(b). Address of Principal Business Office or, if none, Residence:

The address of the principal business office of Novartis Bioventures Ltd. is 131 Front Street, Hamilton, Bermuda HM12.

The address of the principal business office of Novartis AG is Lichtstrasse 35, 4056 Basel, Switzerland.

Item 2(c). Citizenship:

Novartis Bioventures Ltd. is a corporation organized under the laws of Bermuda and is an indirect wholly-owned subsidiary of Novartis AG.

Novartis AG is a corporation organized under the laws of Switzerland and is the publicly owned parent of Novartis Bioventures Ltd..

Item 2(d). Title of Class of Securities:

Common Stock, par value \$0.001 per share ("Common Stock").

Item 2(e). CUSIP Number:

00773J 103

Item 3. If this statement is filed pursuant to §§240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is  
a:

- (a) Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78o);
- (b) Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
- (c) Insurance company as defined in section 3(a)19) of the Act (15 U.S.C. 78c);

- (d) Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
  - (e) An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
  - (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
  - (g) A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
  - (h) A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
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- (i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) A non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J);
- (k) Group, in accordance with §240.13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J), please specify the type of institution: \_\_\_\_\_

#### Item 4. Ownership

##### (a) Amount Beneficially Owned:

Novartis Bioventures Ltd. is the record owner of 2,310,924 shares of Common Stock of the Issuer. As the indirect parent of Novartis Bioventures, Ltd., Novartis AG may be deemed to beneficially own these securities.

##### (b) Percent of Class:

17.2%

##### (c) Number of shares as to which the person has:

- (i) Sole power to vote or to direct the vote: Not applicable
- (ii) Shared power to vote or to direct the vote: 2,310,924
- (iii) Sole power to dispose or to direct the disposition of: Not applicable
- (iv) Shared power to dispose or to direct the disposition of: 2,310,924

#### Item 5. Ownership of 5 Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than 5 percent of the class of securities, check the following .

#### Item 6. Ownership of More than 5 Percent on Behalf of Another Person

Not Applicable

#### Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

Not Applicable

#### Item 8. Identification and Classification of Members of the Group

Not Applicable

#### Item 9. Notice of Dissolution of a Group

Not Applicable



Item 10. Certification

Each of the Reporting Persons hereby makes the following certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: April 13, 2016

Novartis Bioventures Ltd.

/s/ Simon Zivi

Name: Title: Chairman

/s/ Laurieann Chaikowsky

Name: Laurieann Chaikowsky

Title: Authorized Signatory

Novartis AG

/s/ Simon Zivi

Name: Simon Zivi

Title: Authorized Signatory

/s/ Laurieann Chaikowsky

Name: Laurieann Chaikowsky

Title: Authorized Signatory

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INDEX EXHIBIT

SCHEDULE 13G

Exhibit Number Exhibit Description

99.1 Evidence of Signature Authority

99.2 Power of Attorney

99.3 Joint Filing Agreement

