

GENOCEA BIOSCIENCES, INC.

FORM S-8

(Securities Registration: Employee Benefit Plan)

Filed 02/23/17

Address	100 ACORN PARK DRIVE CAMBRIDGE, MA 02140
Telephone	617-876-8191
CIK	0001457612
Symbol	GNCA
SIC Code	2836 - Biological Products, Except Diagnostic Substances
Industry	Biotechnology & Medical Research
Sector	Healthcare
Fiscal Year	12/31

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
WASHINGTON, DC 20549

FORM S-8

**REGISTRATION STATEMENT UNDER THE
SECURITIES ACT OF 1933**

GENOCEA BIOSCIENCES, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of
incorporation or organization)

100 Acorn Park Drive, 5th Floor, Cambridge, MA

(Address of Principal Executive Offices)

51-0596811

(IRS Employer
Identification No.)

02140

(Zip Code)

2014 Equity Incentive Plan
(Full titles of the plans)

William Clark
President and Chief Executive Officer
100 Acorn Park Drive, 5th Floor

Cambridge, MA 02140
(Name and address of agent for service)

(617) 876-8191

(Telephone number, including area code, of agent for service)

Please send copies of all communications to:

Marc A. Rubenstein
Ropes & Gray LLP
Prudential Tower
800 Boylston Street
Boston, MA 02199-3600
617-951-7000

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

(Do not check if a smaller reporting company)

Smaller reporting company

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Amount to be Registered (1)	Proposed Maximum Offering Price Per Share	Proposed Maximum Aggregate Offering Price	Amount of Registration Fee
Common Stock, \$0.001 par value per share	1,137,781 shares (2)	\$ 4.41 (3)	\$ 5,017,615	\$ 582
TOTAL	1,137,781 shares		\$ 5,017,615	\$ 582

- (1) Pursuant to Rule 416(a) under the Securities Act of 1933, this Registration Statement also covers such additional shares of Common Stock as may issued to prevent dilution from stock splits, stock dividends and similar transactions.
- (2) Represents 1,137,781 shares of Common Stock that were automatically added to the shares authorized for issuance under the registrant's 2014 Equity Incentive Plan (the "2014 Plan") on January 1, 2017 pursuant to an "evergreen" provision contained in the 2014 Plan. The "evergreen" provision provides that on each January 1st from January 1, 2015 through January 1, 2024, the number of shares of Common Stock available for issuance under the 2014 Plan will automatically increase annually in an amount equal to the lesser of 4% of outstanding shares of the registrant's Common Stock as of the close of business on the immediately preceding December 31st or the number of shares determined by the registrant's board of directors.
- (3) Estimated solely for the purpose of calculating the registration fee in accordance with Rule 457(h) based on the average high and low prices of the registrant's Common Stock as reported by the NASDAQ Global Market on February 17, 2017 to be \$4.60 and \$4.22, respectively.

EXPLANATORY NOTE

This Registration Statement on Form S-8 is being filed to register an additional 1,137,781 shares under the registrant's 2014 Equity Incentive Plan. Pursuant to Instruction E to Form S-8, the Registrant incorporates by reference, except to the extent supplemented, amended or superseded by the information set forth herein, into this Registration Statement the entire contents of its Registration Statement on Form S-8 (File No.333-194021) filed with the Securities and Exchange Commission on February 19, 2014.

PART II INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 8. Exhibits.

See the Exhibit Index following the signature page.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Cambridge, Commonwealth of Massachusetts, on this 22nd day of February, 2017.

GENOCEA BIOSCIENCES, INC.

By: /s/ Jonathan Poole

Name: Jonathan Poole

Title: Chief Financial Officer

POWER OF ATTORNEY

Each person whose signature appears below constitutes and appoints William Clark and Jonathan Poole, and each of them acting individually, his or her true and lawful attorney-in-fact and agent with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement on Form S-8 to be filed by Genocea Biosciences, Inc., and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents full power and authority to be done in and about the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or their substitutes, may lawfully do or cause to be done by virtue hereof.

* * * *

Pursuant to the requirements of the Securities Act of 1933, as amended, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated:

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ William Clark</u> William Clark	<i>President and Chief Executive Officer and Director</i> <i>(Principal Executive Officer)</i>	February 22, 2017
<u>/s/ Jonathan Poole</u> Jonathan Poole	<i>Chief Financial Officer</i> <i>(Principal Financial Officer &</i> <i>Principal Accounting Officer)</i>	February 22, 2017
<u>/s/ Kevin Bitterman</u> Kevin Bitterman, Ph.D.	Director	February 22, 2017
<u>/s/ Katrine Bosley</u> Katrine Bosley	Director	February 22, 2017
<u>/s/ Kenneth Bate</u> Kenneth Bate	Director	February 22, 2017
<u>/s/ Ronald Cooper</u> Ronald Cooper	Director	February 22, 2017
<u>/s/ Michael Higgins</u> Michael Higgins	Director	February 22, 2017
<u>/s/ Stephen Hoffman</u> Stephen Hoffman, M.D., Ph.D.	Director	February 22, 2017
<u>/s/ George Siber</u> George Siber, M.D.	Director	February 22, 2017

EXHIBIT INDEX

Exhibit Number	Exhibit
4.1	Fifth Amended and Restated Certificate of Incorporation (previously filed as Exhibit 3.1 to the current report on Form 8-K filed on February 12, 2014 (File No. 001-36289) and incorporated herein by reference).
4.2	Amended and Restated By-laws (previously filed as Exhibit 3.2 to the current report on Form 8-K filed on February 12, 2014 (File No. 001-36289) and incorporated herein by reference).
4.3	Form of Common Stock Certificate (previously filed as Exhibit 4.1 to the registration statement on Form S-1 (File No. 333-193043) and incorporated herein by reference).
4.4	Genocea Biosciences, Inc. 2014 Equity Incentive Plan (previously filed as Exhibit 10.15 to the registration statement on Form S-1 (File No. 333-193043) and incorporated herein by reference).
5.1	Opinion of Ropes & Gray LLP (filed herewith).
23.1	Consent of Ernst & Young LLP (filed herewith).
23.2	Consent of Ropes & Gray LLP (included in the opinion filed as Exhibit 5.1).
24.1	Powers of Attorney (included on the signature page in Part II).



ROPES & GRAY LLP
PRUDENTIAL TOWER
800 BOYLSTON STREET
BOSTON, MA 02199-3600
WWW.ROPESGRAY.COM

February 22, 2017

Genocea Biosciences, Inc.
Cambridge Discovery Park
100 Acorn Park Drive, 5th Floor
Cambridge, MA 02140

Re: Registration Statement on Form S-8

Ladies and Gentlemen:

This opinion is furnished to you in connection with the registration statement on Form S-8 (the "Registration Statement"), filed with the Securities and Exchange Commission (the "Commission") under the Securities Act of 1933, as amended (the "Securities Act"), for the registration of an aggregate of 1,137,781 shares of common stock, \$0.001 par value (the "Shares"), of Genocea Biosciences, Inc., a Delaware corporation (the "Company"), issuable under the Company's 2014 Equity Incentive Plan (the "Plan").

We are familiar with the actions taken by the Company in connection with the adoption of the Plan. For purposes of our opinion, we have examined and relied upon such documents, records, certificates and other instruments as we have deemed necessary.

The opinions expressed below are limited to the Delaware General Corporation Law.

Based on the foregoing, we are of the opinion that the Shares have been duly authorized and, when the Shares have been issued and sold in accordance with the Plan, the Shares will be validly issued, fully paid and nonassessable.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement. In giving this consent we do not thereby admit that we are included in the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission promulgated thereunder.

Very truly yours,

/s/ Ropes & Gray LLP

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the Registration Statement (Form S-8) pertaining to the 2014 Equity Incentive Plan of our report dated February 17, 2017, with respect to the consolidated financial statements of Genoece Biosciences, Inc. included in its Annual Report (Form 10-K) for the year ended December 31, 2016, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

Boston, Massachusetts

February 22, 2017