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

SCHEDULE 13D

Under the Securities Exchange Act of 1934
(Amendment No. 4)*

Genocea Biosciences, Inc.

(Name of Issuer)

Common Stock, \$0.001 par value

(Title of Class of Securities)

372427104

(CUSIP Number)

Louis S. Citron, Esq.
New Enterprise Associates
1954 Greenspring Drive, Suite 600, Timonium, MD 21093
(410) 842-4000

(Name, Address and Telephone Number of Person
Authorized to Receive Notices and Communications)

July 24, 2020

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

* 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 disclosures provided in a prior cover page.

The information required on 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).

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) New Enterprise Associates 16, L.P.		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions) WC		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) <input type="checkbox"/>		
6.	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware Limited Partnership		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER 0 Shares	
	8.	SHARED VOTING POWER 15,401,579 shares	
	9.	SOLE DISPOSITIVE POWER 0 Shares	
	10.	SHARED DISPOSITIVE POWER 15,401,579 shares	
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,401,579 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions) <input type="checkbox"/>		
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 26.3%		
14.	TYPE OF REPORTING PERSON (see instructions) PN		

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) NEA Partners 16, L.P.		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		(a) <input type="checkbox"/> (b) <input type="checkbox"/>
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions) AF		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		<input type="checkbox"/>
6.	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware Limited Partnership		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER 0 Shares	
	8.	SHARED VOTING POWER 15,401,579 shares	
	9.	SOLE DISPOSITIVE POWER 0 Shares	
	10.	SHARED DISPOSITIVE POWER 15,401,579 shares	
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,401,579 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)		<input type="checkbox"/>
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 26.3%		
14.	TYPE OF REPORTING PERSON (see instructions) PN		

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
	NEA 16 GP, LLC		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		(a) <input type="checkbox"/> (b) <input type="checkbox"/>
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions)		
	AF		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		<input type="checkbox"/>
6.	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Delaware Limited Liability Company		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER	
		0 Shares	
	8.	SHARED VOTING POWER	
		15,401,579 shares	
9.	SOLE DISPOSITIVE POWER		
	0 Shares		
10.	SHARED DISPOSITIVE POWER		
	15,401,579 shares		
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	15,401,579 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)		<input type="checkbox"/>
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)		
	26.3%		
14.	TYPE OF REPORTING PERSON (see instructions)		
	OO		

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
	Forest Baskettt		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		(a) <input type="checkbox"/> (b) <input type="checkbox"/>
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions)		
	AF		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		<input type="checkbox"/>
6.	CITIZENSHIP OR PLACE OF ORGANIZATION		
	United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER	
		0 Shares	
	8.	SHARED VOTING POWER	
		15,401,579 shares	
	9.	SOLE DISPOSITIVE POWER	
		0 Shares	
	10.	SHARED DISPOSITIVE POWER	
		15,401,579 shares	
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	15,401,579 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)		<input type="checkbox"/>
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)		
	26.3%		
14.	TYPE OF REPORTING PERSON (see instructions)		
	IN		

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Ali Behbahani		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		(a) <input type="checkbox"/> (b) <input type="checkbox"/>
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions) AF		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		<input type="checkbox"/>
6.	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER 12,916 shares	
	8.	SHARED VOTING POWER 15,401,579 shares	
	9.	SOLE DISPOSITIVE POWER 12,916 shares	
	10.	SHARED DISPOSITIVE POWER 15,401,579 shares	
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,414,495 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)		<input type="checkbox"/>
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 26.3%		
14.	TYPE OF REPORTING PERSON (see instructions) IN		

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Carmen Chang	
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)	(a) <input type="checkbox"/> (b) <input type="checkbox"/>
3.	SEC USE ONLY	
4.	SOURCE OF FUNDS (see instructions) AF	
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)	<input type="checkbox"/>
6.	CITIZENSHIP OR PLACE OF ORGANIZATION United States	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER 0 Shares
	8.	SHARED VOTING POWER 15,401,579 shares
	9.	SOLE DISPOSITIVE POWER 0 Shares
	10.	SHARED DISPOSITIVE POWER 15,401,579 shares
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,401,579 shares	
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)	<input type="checkbox"/>
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 26.3%	
14.	TYPE OF REPORTING PERSON (see instructions) IN	

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Anthony A. Florence, Jr.		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		(a) <input type="checkbox"/> (b) <input type="checkbox"/>
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions) AF		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		<input type="checkbox"/>
6.	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER 0 Shares	
	8.	SHARED VOTING POWER 15,401,579 shares	
	9.	SOLE DISPOSITIVE POWER 0 Shares	
	10.	SHARED DISPOSITIVE POWER 15,401,579 shares	
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,401,579 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)		<input type="checkbox"/>
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 26.3%		
14.	TYPE OF REPORTING PERSON (see instructions) IN		

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Mohamad H. Makhzoumi		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		(a) <input type="checkbox"/> (b) <input type="checkbox"/>
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions) AF		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		<input type="checkbox"/>
6.	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER 0 Shares	
	8.	SHARED VOTING POWER 15,401,579 shares	
	9.	SOLE DISPOSITIVE POWER 0 Shares	
	10.	SHARED DISPOSITIVE POWER 15,401,579 shares	
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,401,579 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)		<input type="checkbox"/>
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 26.3%		
14.	TYPE OF REPORTING PERSON (see instructions) IN		

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
	Joshua Makower		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		(a) <input type="checkbox"/> (b) <input type="checkbox"/>
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions)		
	AF		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		<input type="checkbox"/>
6.	CITIZENSHIP OR PLACE OF ORGANIZATION		
	United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER	
		0 Shares	
	8.	SHARED VOTING POWER	
		15,401,579 shares	
9.	SOLE DISPOSITIVE POWER		
	0 Shares		
10.	SHARED DISPOSITIVE POWER		
	15,401,579 shares		
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	15,401,579 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)		<input type="checkbox"/>
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)		
	26.3%		
14.	TYPE OF REPORTING PERSON (see instructions)		
	IN		

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Scott D. Sandell		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions) AF		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) <input type="checkbox"/>		
6.	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER 0 Shares	
	8.	SHARED VOTING POWER 15,401,579 shares	
	9.	SOLE DISPOSITIVE POWER 0 Shares	
	10.	SHARED DISPOSITIVE POWER 15,401,579 shares	
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,401,579 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions) <input type="checkbox"/>		
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 26.3%		
14.	TYPE OF REPORTING PERSON (see instructions) IN		

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Peter W. Sonsini		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions)		(a) <input type="checkbox"/> (b) <input type="checkbox"/>
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions) AF		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)		<input type="checkbox"/>
6.	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER 0 Shares	
	8.	SHARED VOTING POWER 15,401,579 shares	
	9.	SOLE DISPOSITIVE POWER 0 Shares	
	10.	SHARED DISPOSITIVE POWER 15,401,579 shares	
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,401,579 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions)		<input type="checkbox"/>
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 26.3%		
14.	TYPE OF REPORTING PERSON (see instructions) IN		

1.	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY) Paul Walker		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
3.	SEC USE ONLY		
4.	SOURCE OF FUNDS (see instructions) AF		
5.	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e) <input type="checkbox"/>		
6.	CITIZENSHIP OR PLACE OF ORGANIZATION United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7.	SOLE VOTING POWER 0 Shares	
	8.	SHARED VOTING POWER 15,401,579 shares	
	9.	SOLE DISPOSITIVE POWER 0 Shares	
	10.	SHARED DISPOSITIVE POWER 15,401,579 shares	
11.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 15,401,579 shares		
12.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions) <input type="checkbox"/>		
13.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 26.3%		
14.	TYPE OF REPORTING PERSON (see instructions) IN		

Schedule 13D

Item 1. Security and Issuer.

This Amendment No. 4 (“Amendment No. 4”) to Schedule 13D amends and supplements the statement on 13D originally filed on January 26, 2018, Amendment No. 1 thereto filed on February 22, 2019, Amendment No. 2 thereto filed on June 28, 2019 and Amendment No. 3 thereto filed on August 3, 2020 relating to the common shares, \$0.001 par value (the “Common Stock”), of Genocea Biosciences, Inc. (the “Issuer”) having its principal executive office at Cambridge Discovery Park, 100 Acorn Park Drive, 5th Floor, Cambridge, Massachusetts 02140.

Certain terms used but not defined in this Amendment No. 4 have the meanings assigned thereto in the Schedule 13D (including Amendment No. 1, Amendment No. 2 thereto and Amendment No. 3 thereto). Except as specifically provided herein, this Amendment No. 4 does not modify any of the information previously reported on the Schedule 13D (including Amendment No. 1, Amendment No. 2 and Amendment No. 3 thereto).

Item 2. Identity and Background.

This statement is being filed by:

(a) New Enterprise Associates 16, L.P. (“NEA 16”), NEA Partners 16, L.P. (“NEA Partners 16”), which is the sole general partner of NEA 16; and NEA 16 GP, LLC (“NEA 16 LLC” and, together with NEA Partners 16, the “Control Entities”), which is the sole general partner of NEA Partners 16; and

(b) Forest Baskett (“Baskett”), Ali Behbahani (“Behbahani”), Carmen Chang (“Chang”), Anthony A. Florence, Jr. (“Florence”), Mohamad H. Makhzoumi (“Makhzoumi”), Joshua Makower (“Makower”), Scott D. Sandell (“Sandell”), Peter W. Sonsini (“Sonsini”) and Paul Walker (“Walker”) (together, the “Managers”). The Managers are the managers of NEA 16 LLC.

The persons named in this Item 2 are referred to individually herein as a “Reporting Person” and collectively as the “Reporting Persons.”

The address of the principal business office of NEA 16, each Control Entity and Sandell is New Enterprise Associates, 1954 Greenspring Drive, Suite 600, Timonium, MD 21093. The address of the principal business office of Behbahani is New Enterprise Associates, 5425 Wisconsin Avenue, Suite 800, Chevy Chase, MD 20815. The address of the principal business office of each of Baskett, Chang, Makhzoumi, Makower, Sonsini and Walker is New Enterprise Associates, 2855 Sand Hill Road, Menlo Park, California 94025. The address of the principal business office of Florence is New Enterprise Associates, 104 5th Avenue, 19th Floor, New York, NY 10001.

The principal business of NEA 16 is to invest in and assist growth-oriented businesses located principally in the United States. The principal business of NEA Partners 16 is to act as the sole general partner of NEA 16. The principal business of NEA 16 LLC is to act as the sole general partner of NEA Partners 16. The principal business of each of the Managers is to manage the Control Entities, NEA 16 and a number of affiliated partnerships with similar businesses.

During the five years prior to the date hereof, none of the Reporting Persons has been convicted in a criminal proceeding or has been a party to a civil proceeding ending in a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

NEA 16 LLC is a limited liability company organized under the laws of the State of Delaware. NEA 16 and NEA Partners 16 are limited partnerships organized under the laws of the State of Delaware. Each of the Managers is a United States citizen.

Item 3. Source and Amount of Funds or Other Consideration.

On July 22, 2020, NEA 16 entered into a Securities Purchase Agreement among the Issuer, NEA 16 and certain other purchasers (the "Purchase Agreement"), pursuant to which NEA 16 acquired 3,151,260 shares (the "NEA 16 Shares") of Common Stock at a purchase price of \$2.25 per share and a Class C warrant to purchase, subject to certain limitations, up to an aggregate of 3,151,260 shares of Common Stock (the "NEA 16 Class C Warrant Shares"), exercisable immediately, from the Issuer in a private placement transaction (the "Offering") for an aggregate purchase price to NEA 16 of \$7,499,998.80. In addition, prior to the Offering, NEA 16 held 7,225,676 shares of the Issuer's Common Stock (the "Prior NEA 16 Shares"), a Class A warrant to purchase, subject to certain limitations, up to an aggregate of 1,562,500 shares of the Issuer's Common Stock, exercisable immediately (the "NEA 16 Class A Warrant Shares"), and a Class B warrant to purchase, subject to certain limitations, up to an aggregate of 310,883 shares of the Issuer's Common Stock, exercisable immediately (the "NEA 16 Class B Warrant Shares"). NEA now holds a total of 10,376,936 shares of the Issuer's Common Stock and warrants to purchase 5,024,643 shares of the Issuer's Common Stock (together, the "Securities").

The working capital of NEA 16 was the source of the funds for the purchase of the Securities. No part of the purchase price of the Securities was represented by funds or other consideration borrowed or otherwise obtained for the purpose of acquiring, holding, trading or voting the Securities.

Item 4. Purpose of Transaction.

NEA 16 acquired the Securities for investment purposes. Depending on market conditions, its continuing evaluation of the business and prospects of the Issuer and other factors, NEA 16 and other Reporting Persons may dispose of or acquire additional shares of the Issuer. Except as set forth above, none of the Reporting Persons has any present plans which relate to or would result in:

- (a) The acquisition by any person of additional securities of the Issuer, or the disposition of securities of the Issuer;
- (b) An extraordinary corporate transaction, such as a merger, reorganization or liquidation, involving the Issuer or any of its subsidiaries;
- (c) A sale or transfer of a material amount of assets of the Issuer or any of its subsidiaries;
- (d) Any change in the present board of directors or management of the Issuer, including any plans or proposals to change the number or term of directors or to fill any existing vacancies on the board;
- (e) Any material change in the present capitalization or dividend policy of the Issuer;
- (f) Any other material change in the Issuer's business or corporate structure;
- (g) Changes in the Issuer's charter, bylaws or instruments corresponding thereto or other actions which may impede the acquisition of control of the Issuer by any person;
- (h) Causing a class of securities of the Issuer to be delisted from a national securities exchange or to cease to be authorized to be quoted in an inter-dealer quotation system of a registered national securities association;
- (i) A class of equity securities of the Issuer becoming eligible for termination of registration pursuant to Section 12(g)(4) of the Securities Exchange Act of 1934; or
- (j) Any action similar to any of those enumerated above.

¹ This Amendment No. 4 to Schedule 13D does not reflect a change in the number of shares beneficially owned by the Reporting Persons, but rather is being filed to correct a clerical error reported in the number of shares of Common Stock held of record by the Reporting Persons in Amendment No. 3.

Item 5. Interest in Securities of the Issuer.

- (a) NEA 16 is the record owner of the Securities. As the general partner of NEA 16, NEA Partners 16 may be deemed to own beneficially the Securities. As the sole general partner of NEA Partners 16, NEA 16 LLC may be deemed to own beneficially the Securities. As members of NEA 16 LLC, each of the Managers may be deemed to own beneficially the Securities.

As of April 12, 2021, Behbahani is the record owner of vested options to purchase 12,916 shares of Common Stock (the “Behbahani Option Shares”), exercisable within 60 days.

Each Reporting Person disclaims beneficial ownership of the Securities other than those shares which such person owns of record.

The percentage of outstanding Common Stock of the Issuer which may be deemed to be beneficially owned by each Reporting Person is set forth on Line 13 of such Reporting Person’s cover sheet. Such percentage was calculated based on 58,543,126 shares of Common Stock deemed to be outstanding, which includes (i) 53,518,483 shares of Common Stock reported to be outstanding as of February 18, 2021 on the Issuer’s Form 10-K, filed with the Securities and Exchange Commission on February 22, 2021 (the “10-K Shares”), (ii) the NEA 16 Class A Warrant Shares, (iii) the NEA 16 Class B Warrant Shares and (iv) the NEA 16 Class C Warrant Shares. The percentage set forth on the cover sheet for Behbahani is calculated based on 58,556,042 shares of Common Stock, which includes (1) the 10-K Shares, (2) the NEA 16 Class A Warrant Shares, (3) the NEA 16 Class B Warrant Shares, (4) the NEA 16 Class C Warrant Shares and (5) the Behbahani Option Shares.

- (b) Regarding the number of shares as to which such person has:
- (i) sole power to vote or to direct the vote: See line 7 of cover sheets
 - (ii) shared power to vote or to direct the vote: See line 8 of cover sheets
 - (iii) sole power to dispose or to direct the disposition: See line 9 of cover sheets
 - (iv) shared power to dispose or to direct the disposition: See line 10 of cover sheets
- (c) Except as set forth in Item 3 above, none of the Reporting Persons has effected any transaction in the Common Stock during the last 60 days.
- (d) No other person is known to have the right to receive or the power to direct the receipt of dividends from, or any proceeds from the sale of, Common Stock beneficially owned by any of the Reporting Persons.
- (e) Not Applicable.

Item 7. Material to Be Filed as Exhibits.

Exhibit 1 – Agreement regarding filing of joint Schedule 13D.

Exhibit 2 – Power of Attorney regarding filings under the Securities Exchange Act of 1934, as amended.

SIGNATURE

After reasonable inquiry and to the best of its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

EXECUTED this 13th day of April, 2021.

NEW ENTERPRISE ASSOCIATES 16, L.P.

By: NEA PARTNERS 16, L.P.
General Partner

By: NEA 16 GP, LLC
General Partner

By: _____
*
Scott D. Sandell
Chief Executive Officer

NEA PARTNERS 16, L.P.

By: NEA 16 GP, LLC
General Partner

By: _____
*
Scott D. Sandell
Chief Executive Officer

NEA 16 GP, LLC

By: _____
*
Scott D. Sandell
Chief Executive Officer



*

Forest Baskett

*

Ali Behbahani

*

Carmen Chang

*

Anthony A. Florence, Jr.

*

Mohamad H. Makhzoumi

*

Joshua Makower

*

Scott D. Sandell

*

Peter W. Sonsini

*

Paul Walker

*/s/ Sasha O. Keough
Sasha O. Keough
As attorney-in-fact

This Amendment No. 4 to Schedule 13D was executed by Sasha O. Keough on behalf of the individuals listed above pursuant to a Power of Attorney a copy of which is attached as Exhibit 2.

AGREEMENT

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, the undersigned hereby agree that only one statement containing the information required by Schedule 13D need be filed with respect to the ownership by each of the undersigned of shares of stock of Genoclea Biosciences, Inc.

EXECUTED this 13th day of April, 2021.

NEW ENTERPRISE ASSOCIATES 16, L.P.

By: NEA PARTNERS 16, L.P.
General Partner

By: NEA 16 GP, LLC
General Partner

By: _____
*
Scott D. Sandell
Chief Executive Officer

NEA PARTNERS 16, L.P.

By: NEA 16 GP, LLC
General Partner

By: _____
*
Scott D. Sandell
Chief Executive Officer

NEA 16 GP, LLC

By: _____
*
Scott D. Sandell
Chief Executive Officer

*

Forest Baskett

*

Ali Behbahani

*

Carmen Chang

*

Anthony A. Florence, Jr.

*

Mohamad H. Makhzoumi

*

Joshua Makower

*

Scott D. Sandell

*

Peter W. Sonsini

*

Paul Walker

*/s/ Sasha O. Keough
Sasha O. Keough
As attorney-in-fact

This Agreement relating to Schedule 13D was executed by Sasha O. Keough on behalf of the individuals listed above pursuant to a Power of Attorney a copy of which is attached hereto as Exhibit 2.

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned hereby constitutes and appoints Louis S. Citron, Timothy Schaller, Sasha Keough and Stephanie Brecher, and each of them, with full power to act without the others, his or her true and lawful attorney-in-fact, with full power of substitution, to sign any and all instruments, certificates and documents that may be necessary, desirable or appropriate to be executed on behalf of himself as an individual or in his or her capacity as a direct or indirect general partner, director, officer or manager of any partnership, corporation or limited liability company, pursuant to section 13 or 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and any and all regulations promulgated thereunder, and to file the same, with all exhibits thereto, and any other documents in connection therewith, with the Securities and Exchange Commission, and with any other entity when and if such is mandated by the Exchange Act or by the Financial Industry Regulatory Authority, granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing necessary, desirable or appropriate, fully to all intents and purposes as he or she might or could do in person, thereby ratifying and confirming all that said attorney-in-fact, or his or her substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the 13th day of March, 2017.

/s/ M. James Barrett
M. James Barrett

/s/ Peter J. Barris
Peter J. Barris

/s/ Forest Baskett
Forest Baskett

/s/ Ali Behbahani
Ali Behbahani

/s/ Colin Bryant
Colin Bryant

/s/ Carmen Chang
Carmen Chang

/s/ Anthony A. Florence, Jr.
Anthony A. Florence, Jr.

/s/ Carol G. Gallagher
Carol G. Gallagher

/s/ Dayna Grayson
Dayna Grayson

/s/ Patrick J. Kerins
Patrick J. Kerins

/s/ P. Justin Klein
P. Justin Klein

/s/ Vanessa Larco
Vanessa Larco

/s/ Joshua Makower
Joshua Makower

/s/ Mohamad H. Makhzoumi
Mohamad H. Makhzoumi

/s/ Edward T. Mathers
Edward T. Mathers

/s/ David M. Mott
David M. Mott

/s/ Sara M. Nayeem
Sara M. Nayeem

/s/ Jason R. Nunn
Jason R. Nunn

/s/ Gregory Papadopoulos
Gregory Papadopoulos

/s/ Chetan Puttagunta
Chetan Puttagunta

/s/ Jon Sakoda
Jon Sakoda

/s/ Scott D. Sandell
Scott D. Sandell

/s/ A. Brooke Seawell
A. Brooke Seawell

/s/ Peter W. Sonsini
Peter W. Sonsini

/s/ Melissa Taunton
Melissa Taunton

/s/ Frank M. Torti
Frank M. Torti

/s/ Ravi Viswanathan
Ravi Viswanathan

/s/ Paul E. Walker
Paul E. Walker

/s/ Rick Yang
Rick Yang