New Enterprise Associates 16, L.P.

Form 4

February 19, 2019

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading New Enterprise Associates 16, L.P. Issuer Symbol GENOCEA BIOSCIENCES, INC. (Check all applicable) [GNCA] 3. Date of Earliest Transaction (Last) (First) (Middle) Director X 10% Owner Other (specify Officer (give title (Month/Day/Year) below) 1954 GREENSPRING 02/14/2019 DRIVE, SUITE 600 (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) Form filed by One Reporting Person _X_ Form filed by More than One Reporting TIMONIUM, MD 21093 Person

(State) (Zip) (City) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 4. Securities Acquired (A) or 5. Amount of 7. Nature of Security (Month/Day/Year) Execution Date, if TransactiorDisposed of (D) Securities Ownership Indirect (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Beneficial (Month/Day/Year) Ownership (Instr. 8) Owned Direct (D) or Indirect **Following** (Instr. 4) Reported (I) (A) Transaction(s) (Instr. 4) or (Instr. 3 and 4) Code V Price Amount (D) Common $P^{(1)}$ 02/14/2019 9,948,269 $D^{(2)}$ 34,948,269 Stock 0.4713

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

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

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1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number of	6. Date Exercis	sable and	7. Title and A	Amount
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onDerivative	Expiration Dat	e	Underlying S	Securitie
Security	or Exercise		any	Code	Securities	(Month/Day/Y	ear)	(Instr. 3 and	4)
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Acquired (A) or				
	Derivative				Disposed of (D)				
	Security				(Instr. 3, 4, and 5)				
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amou Numb Shares
Warrant									
to Purchase	\$ 0.5656	02/14/2019		P(1)	2,487,067	02/14/2019	02/14/2024	Common Stock	2,48
Common								Stock	

Reporting Owners

Stock

Reporting Owner Name / Address	Relationships					
Fg c	Director	10% Owner	Officer	Other		
New Enterprise Associates 16, L.P. 1954 GREENSPRING DRIVE SUITE 600 TIMONIUM, MD 21093		X				
NEA Partners 16, L.P. 1954 GREENSPRING DRIVE SUITE 600 TIMONIUM, MD 21093		X				
NEA 16 GP, LLC 1954 GREENSPRING DRIVE SUITE 600 TIMONIUM, MD 21093		X				

Signatures

/s/ Sasha Keough, attorney-in-fact 02/19/2019

**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).
- (1) Acquired from the issuer pursuant to a Subscription Agreement dated February 11, 2019, with a closing date of February 14, 2019.
 - The shares are directly held by New Enterprise Associates 16, L.P. ("NEA 16"), and indirectly held by NEA Partners 16, L.P. ("NEA Partners"), the sole general partner of NEA 16, NEA 16 GP, LLC ("NEA 16 GP"), the sole general partner of NEA Partners 16, and the individual managers of NEA 16 GP (NEA Partners 16, NEA 16 GP and the individual managers of NEA 16 GP, together, the "Indirect
- (2) Reporting Persons"). The individual managers of NEA 16 GP are Peter J. Barris, Forest Baskett, Ali Behbahani, Carmen Chang, Anthony A. Florence, Jr., Mohamad Makhzoumi, Josh Makower, David M. Mott, Scott D. Sandell and Peter W. Sonsini. The Indirect Reporting Persons disclaim beneficial ownership within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, or otherwise of such portion of the shares of the Issuer held by NEA 16 in which the Indirect Reporting Persons have no pecuniary interest.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Reporting Owners 2

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