

GENOCEA BIOSCIENCES, INC.  
 Form 4  
 February 11, 2014

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF 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 Person \*  
 George Simeon

2. Issuer Name and Ticker or Trading Symbol  
 GENOCEA BIOSCIENCES, INC.  
 [GNCA]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)  
 02/10/2014

Director  10% Owner  
 Officer (give title below)  Other (specify below)

C/O S.R. ONE LIMITED, 161  
 WASHINGTON STREET, SUITE  
 500

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

CONSHOHOCKEN, PA 19428

(City) (State) (Zip)

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	02/10/2014		P <sup>(1)</sup>		143,773	A	\$ 12 (1)
Common Stock	02/10/2014		C		775,694	A	(3)
Common Stock	02/10/2014		C		344,473	A	(4)

See footnote (2)  
 See footnote (2)  
 See footnote (2)

Common Stock	02/10/2014	C	407,727	A	(5)	1,671,667	I	See footnote (2)
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474  
(9-02)

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
					V	(A)	(D)	Date Exercisable		Expiration Date
Series A Preferred Stock	(3)	02/10/2014		C		9,230,769	(3)	(3)	Common Stock	775,694
Series B Preferred Stock	(4)	02/10/2014		C		4,099,231	(4)	(4)	Common Stock	344,473
Series C Preferred Stock	(5)	02/10/2014		C		4,851,958	(5)	(5)	Common Stock	407,727

## Reporting Owners

### Reporting Owner Name / Address

### Relationships

Director    10% Owner    Officer    Other

George Simeon  
C/O S.R. ONE LIMITED  
161 WASHINGTON STREET, SUITE 500  
CONSHOHOCKEN, PA 19428

X

## Signatures

/s/ Robert E. Farrell, Jr., as attorney-in-fact for Simeon  
George

02/11/2014

\_\_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) Shares issued upon the closing of the Issuer's initial public offering at the initial public offering price of \$12.00 per share.
- (2) Shares are held by S.R. One, Limited, an indirect, wholly-owned subsidiary of GlaxoSmithKline PLC. Simeon J. George is a Vice President at S.R. One, Limited and an employee of GlaxoSmithKline LLC, a wholly-owned subsidiary of GlaxoSmithKline plc.
- (3) The shares of Series A Preferred Stock converted automatically into Common Stock, on a 1-for-11.9 basis, upon the closing of the Issuer's initial public offering, and had no expiration date.
- (4) The shares of Series B Preferred Stock, including all accrued cumulative and unpaid dividends thereon, converted automatically into Common Stock, on a 1-for-11.9 basis, upon the closing of the Issuer's initial public offering, and had no expiration date.
- (5) The shares of Series C Preferred Stock converted automatically into Common Stock, on a 1-for-11.9 basis, upon the closing of the Issuer's initial public offering, and had no expiration date.

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

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