Flechtner Jessica Baker Form 4 February 12, 2018

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB 3235-0287

OMB APPROVAL

Number:

Expires:

January 31,

Estimated average

2005

0.5

response...

burden hours per

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

obligations

may continue.

See Instruction

Check this box

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 * Flechtner Jessica Baker

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to

Issuer

(Middle)

Symbol

GENOCEA BIOSCIENCES, INC.

(Check all applicable)

[GNCA]

(Last) (First) 3. Date of Earliest Transaction (Month/Day/Year)

Director X_ Officer (give title below)

10% Owner Other (specify

02/08/2018

Chief Scientific Officer

CAMBRIDGE DISCOVERY PARK, 100 ACORN PARK DRIVE, 5TH FLOOR

(Street)

4. If Amendment, Date Original

(Instr. 8)

6. Individual or Joint/Group Filing(Check

Applicable Line)

Filed(Month/Day/Year)

X Form filed by One Reporting Person Form filed by More than One Reporting

(Instr. 4)

CAMBRIDGE, MA 02140

(City) (State)

Security

(Instr. 3)

(Zip)

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

1.Title of

2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D)

5. Amount of Securities Beneficially Owned

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership

(Instr. 4)

Following Reported Transaction(s)

(A)

(Instr. 3, 4 and 5)

(Instr. 3 and 4) Code V Amount (D) Price

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 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. Transactic Code (Instr. 8)	5. Number of orDerivative 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)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (Right to Buy)	\$ 0.98	02/08/2018		A	137,500		<u>(1)</u>	02/07/2028	Common Stock	137,500

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Flechtner Jessica Baker CAMBRIDGE DISCOVERY PARK 100 ACORN PARK DRIVE, 5TH FLOOR CAMBRIDGE, MA 02140

Chief Scientific Officer

Signatures

/s/ Jonathan Poole, Attorney-in-Fact 02/13/2018

**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).

The options granted will vest annually in 48 equal monthly installments beginning on the first monthly anniversary of the grant date. The (1) Company's Board of Directors also approved on February 8, 2018 that, subject to stockholder approval, Jessica Baker Flechtner will receive 162,500 additional options with the same grant date, at the same exercise price and pursuant to the same vesting schedule.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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