

GENOCEA BIOSCIENCES, INC.  
 Form 4  
 September 15, 2014

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

OMB APPROVAL  
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**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 \*  
 Flechtner Jessica Baker

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)  
 09/11/2014

\_\_\_\_ Director  
 Officer (give title below)  
 \_\_\_\_ 10% Owner  
 \_\_\_\_ Other (specify below)  
 VP of Research

C/O GENOCEA BIOSCIENCES, INC., 100 ACORN DRIVE, 5TH FLOOR

(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

CAMBRIDGE, MA 02140

(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) |   |   |  |                                   |
| Common Stock                    | 09/11/2014                           |  | M                              |   | 840    | A          | \$ 1.67   | 840   | D  |                                   |
| Common Stock                    | 09/11/2014                           |  | S                              |   | 840    | D          | \$ 12 0   | 0   | D  |                                   |
| Common Stock                    | 09/11/2014                           |  | M                              |   | 3,663  | A          | \$ 2.38   | 3,683   | D  |                                   |
| Common Stock                    | 09/11/2014                           |  | S                              |   | 3,663  | D          | \$ 12 0   | 0   | D  |                                   |
|                                 | 09/12/2014                           |  | M                              |   | 1,680  | A          |   | 1,680   | D  |                                   |

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|              |            |  |   |       |   |         |       |   |
|--------------|------------|--|---|-------|---|---------|-------|---|
| Common Stock |            |  |   |       |   | \$ 1.67 |       |   |
| Common Stock | 09/12/2014 |  | M | 420   | A | \$ 1.67 | 2,100 | D |
| Common Stock | 09/12/2014 |  | S | 420   | D | \$ 12   | 1,680 | D |
| Common Stock | 09/12/2014 |  | M | 1,456 | A | \$ 2.38 | 3,136 | D |
| Common Stock | 09/12/2014 |  | S | 1,456 | D | \$ 12   | 1,680 | D |
| Common Stock | 09/12/2014 |  | M | 56    | A | \$ 2.38 | 1,736 | D |
| Common Stock | 09/12/2014 |  | S | 56    | D | \$ 12   | 1,680 | D |

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

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(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) | 8. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Stock Option (Right to Buy)                | \$ 1.67  | 09/11/2014                           |  | M                              | 840   | <u>(1)</u> 01/22/2018                                    | Common Stock  | 840                           |
| Stock Option (Right to Buy)                | \$ 2.38  | 09/11/2014                           |  | M                              | 3,663   | <u>(2)</u> 06/29/2019                                    | Common Stock  | 3,663                         |
| Stock Option                               | \$ 1.67  | 09/12/2014                           |  | M                              | 1,680   | <u>(3)</u> 05/14/2017                                    | Common Stock  | 1,680                         |

(Right to Buy)

|                             |         |            |   |       |     |            |              |       |
|-----------------------------|---------|------------|---|-------|-----|------------|--------------|-------|
| Stock Option (Right to Buy) | \$ 1.67 | 09/12/2014 | M | 420   | (4) | 08/19/2017 | Common Stock | 420   |
| Stock Option (Right to Buy) | \$ 2.38 | 09/12/2014 | M | 1,456 | (2) | 06/29/2019 | Common Stock | 1,456 |
| Stock Option (Right to Buy) | \$ 2.38 | 09/12/2014 | M | 56    | (2) | 06/29/2019 | Common Stock | 56    |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |                |       |
|--|---------------|-----------|----------------|-------|
|  | Director      | 10% Owner | Officer        | Other |
| Flehtner Jessica Baker<br>C/O GENOCEA BIOSCIENCES, INC.<br>100 ACORN DRIVE, 5TH FLOOR<br>CAMBRIDGE, MA 02140 |               |           | VP of Research |       |

## Signatures

/s/ Robert E. Farrell, Jr.,  
Attorney-in-Fact

09/15/2014

\*\*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) The option vested 25% on 01/23/09 and the remainder in equal monthly installments for the next three years thereafter.
- (2) The option vested 6.25% on 06/30/09 and the remainder in equal monthly installments for the next four years thereafter.
- (3) The option vested 25% on 05/15/08 and the remainder in equal monthly installments for the next three years thereafter.
- (4) The option vested 25% on 08/20/07 and the remainder in equal monthly installments for the next three years thereafter.

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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