

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

**FORM 12b-25**  
NOTIFICATION OF LATE FILING

SEC FILE NUMBER 001-36289 CUSIP NUMBER 372427104
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(Check one)     Form 10-K     Form 20-F     Form 11-K     Form 10-Q  
                   Form 10-D     Form N-SAR     Form N-CSR

For Period Ended:                    March 31, 2018

- Transition Report on Form 10-K
- Transition Report on Form 20-F
- Transition Report on Form 11-K
- Transition Report on Form 10-Q
- Transition Report on Form N-SAR

For the Transition Period Ended:

*Read Instruction (on back page) Before Preparing Form. Please Print or Type.*  
**Nothing in this form shall be construed to imply that the Commission has verified any information contained herein.**

If the notification relates to a portion of the filing checked above, identify the Item(s) to which the notification relates:

**PART I — REGISTRANT INFORMATION**

Genocea Biosciences, Inc.

Full Name of Registrant

Former Name if Applicable

100 Acorn Park Drive, Cambridge, Massachusetts 02140

Address of Principal Executive Office (Street and Number)

Cambridge, Massachusetts 02140

City, State, and Zip Code

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has caused this notification to be signed on its behalf by the undersigned hereunto duly authorized.

Date: May 10, 2018

By: /s/ William D. Clark  
President and Chief Executive Officer

INSTRUCTION: The form may be signed by an executive officer of the registrant or by any other duly authorized representative. The name and title of the person signing the form shall be typed or printed beneath the signature. If the statement is signed on behalf of the registrant by an authorized representative (other than an executive officer), evidence of the representative's authority to sign on behalf of the registrant shall be filed with the form.

**ATTENTION**

**Intentional misstatements or omissions of fact constitute Federal Criminal Violations (See 18 U.S.C. 1001)**