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

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934

(Amendment No. 1)*

Genocea Biosciences, Inc.

(Name of Issuer)

Common Stock, \$0.001 par value

(Title of Class of Securities)

372427104

(CUSIP Number)

December 31, 2019

(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
 Rule 13d-1(c)
 Rule 13d-1(d)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1	NAMES OF REPORTING PERSONS Vivo Opportunity, LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 1,443,838 ⁽¹⁾
	6	SHARED VOTING POWER 0
	7	SOLE DISPOSITIVE POWER 1,443,838 ⁽¹⁾
	8	SHARED DISPOSITIVE POWER 0
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,443,838 ⁽¹⁾	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions) <input type="checkbox"/>	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.0% ⁽²⁾	
12	TYPE OF REPORTING PERSON (See Instructions) OO	

(1) The number represents (a) 626,401 shares of common stock of Genocoe Biosciences, Inc. (the "Issuer"), (b) 204,000 shares of common stock issuable upon conversion of 204 shares of the issuer's Series A convertible preferred stock, and (c) 613,437 shares of common stock issuable upon exercise of 1,226,875 Class A warrants; provided, however, the reporting person is prohibited from converting Series A convertible preferred stock into shares of common stock, or exercising Class A warrants for shares of common stock, if, as a result of such conversion or exercise, the reporting person, together with its affiliates, would own more than 9.99% of the total number of shares of common stock then issued and outstanding. The securities are held of record by Vivo Opportunity Fund, L.P. Vivo Opportunity, LLC is the general partner of Vivo Opportunity Fund, L.P.

(2) Based on (a) up to 47,336,130 shares of common stock of the Issuer, as disclosed in the prospectus supplement filed by the Issuer on November 8, 2019 with the Securities and Exchange Commission pursuant to Rule 424(b)(5), which forms part of the Issuer's Registration Statement on Form S-3 (File No. 333-225086), (b) 204,000 shares of common stock issuable upon conversion of 204 shares of the issuer's Series A convertible preferred stock, and (c) 613,437 shares of common stock issuable upon exercise of 1,226,875 Class A warrants.

Item 1. (a) Name of Issuer:

Genocea Biosciences, Inc.

(b) Address of Issuer's Principal Executive Offices:

Cambridge Discovery Park, 100 Acorn Park Drive, 5th Floor, Cambridge, MA

Item 2. (a) Name of Person Filing:

Vivo Opportunity, LLC

(b) Address of Principal Business Office or, if None, Residence:

192 Lytton Avenue, Palo Alto, CA 94301

(c) Citizenship:

Vivo Opportunity, LLC is a Delaware limited liability company.

(d) Title of Class of Securities:

Common Stock

(e) CUSIP Number:

372427104

Item 3. If This Statement is Filed Pursuant to §§ 240.13d-1(b), or 240.13d-2(b) or (c), Check Whether the Person Filing is a:

- (a) Broker or dealer registered under Section 15 of the Act.
- (b) Bank as defined in Section 3(a)(6) of the Act.
- (c) Insurance company as defined in Section 3(a)(19) of the Act.
- (d) Investment company registered under Section 8 of the Investment Company Act of 1940.
- (e) An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
- (f) An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
- (g) A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h) A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;
- (i) A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
- (j) A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J);
- (k) Group, in accordance with § 240.13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(j), please specify the type of institution: _____

Not Applicable.

Item 4. Ownership.

(a) Amount beneficially owned:

The securities are held of record by Vivo Opportunity Fund, L.P.

Vivo Opportunity, LLC is the general partner of Vivo Opportunity Fund, L.P. The voting members of Vivo Opportunity, LLC are Albert Cha, Gaurav Aggarwal, Shan Fu, Frank Kung and Michael Chang, none of whom has individual voting or investment power with respect to these shares of common stock and each of whom disclaims beneficial ownership of such shares of common stock.

(b) Percent of class:

3.0 %

(c) Number of shares as to which such person has:

- (i) Sole power to vote or to direct the vote: 1,443,838
- (ii) Shared power to vote or to direct the vote: 0
- (iii) Sole power to dispose or to direct the disposition of: 1,443,838
- (iv) Shared power to dispose of or to direct the disposition of: 0

Item 5. Ownership of Five Percent or Less of a Class.

Not Applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not Applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Not Applicable.

Item 8. Identification and Classification of Members of the Group.

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certifications.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect, other than activities solely in connection with a nomination under §240.14a11.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Vivo Opportunity, LLC

February 13, 2020

(Date)

/s/ Albert Cha

(Signature)

Managing Member

(Title)