

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**FORM 8-K**

**CURRENT REPORT**

**Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934**

Date of Report (Date of earliest event reported): 5/9/2018

**GENOCEA BIOSCIENCES, INC.**

(Exact name of registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction of  
incorporation)

**001-36289**  
(Commission File Number)

**51-0596811**  
(IRS Employer  
Identification No.)

**Cambridge Discovery Park**  
**100 Acorn Park Drive, 5th Floor**  
**Cambridge, MA**  
(Address of principal executive offices)

**02140**  
(Zip Code)

(Registrant's telephone number, including area code): **(617) 876-8191**

**Not Applicable**  
(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§ 240.12b-2 of this chapter).

Emerging Growth Company

If an emerging growth company, indicate by a check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

**Item 2.02 Results of Operations and Financial Condition.**

On May 10, 2018, Genocea Biosciences, Inc. (the "Company") announced its financial results for the first quarter ended March 31, 2018. A full text of the press release issued in connection with the announcement is furnished as Exhibit 99.1 to this Current Report on Form 8-K.

The information contained in this Current Report on Form 8-K, including Exhibit 99.1 attached hereto, is being furnished and shall not be deemed "filed" for any purpose, and shall not be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, except as expressly set forth by specific reference in such filing.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

99.1 [Press Release issued by Genocea Biosciences, Inc. on May 10, 2018](#)

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

**GENOCEA BIOSCIENCES, INC.**

By: /s/ JONATHAN POOLE

Jonathan Poole  
Chief Financial Officer

Date: February 15, 2018

**For media:**

Jennifer LaVin  
617-715-6687  
jennifer.lavin@genocea.com

## Genocea Reports First Quarter 2018 Financial and Operating Results

- *Company files IND for lead neoantigen vaccine program, GEN-009 -*  
 - *ATLAS™ platform continues to stand apart from in silico methods of neoantigen identification -*  
 - *Conference call today at 9 am ET -*

**CAMBRIDGE, Mass., May 10, 2018** - [Genocea Biosciences, Inc.](#) (NASDAQ: GNCA), a biopharmaceutical company developing neoantigen cancer vaccines, today reported financial and operating results for the first quarter ended March 31, 2018.

"2018 has been an exciting year for Genocea," said Chip Clark, president and chief executive officer of the company. "Following our January financing, we are funded to advance our lead neoantigen cancer vaccine candidate GEN-009 into clinical trials later this year, and to continue to generate and present scientific data further elaborating on the ability of our ATLAS platform to identify and characterize neoantigens for use in cancer vaccines."

### Recent Milestones & Events

- January 2018: Genocea announced completion of a financing resulting in net proceeds of \$51.7 million, including significant investments by New Enterprise Associates (NEA) and Vivo Capital. (Vivo).
- January 2018: The U.S. Patent and Trademark Office issued an allowance on United States Patent 9,873,870, further strengthening the Company's intellectual property position on its ATLAS platform for the identification and characterization of neoantigens and tumor-associated antigens.
- January 2018: Genocea and Oncovir, Inc. entered into a license and supply agreement for Oncovir's Hiltonol® (poly-ICLC) adjuvant, a key component of Genocea's personalized cancer vaccine candidate, GEN-009.
- February and March 2018: Genocea strengthened its leadership through the election of NEA partner Ali Behbahani, M.D., to its Board of Directors, and the appointment of industry veteran Narinder Singh as senior vice president of pharmaceutical sciences and manufacturing.
- April 2018: Genocea scientists presented data at the 2018 Annual Meeting of the American Association for Cancer Research (AACR) further highlighting the advantages of its ATLAS platform over *in silico* methods in neoantigen identification and detailing the development of a novel model to study the mechanism of inhibitory antigens identified by ATLAS.
- April 2018: Genocea filed an Investigational New Drug (IND) application with the U.S. Food and Drug Administration (FDA) to begin clinical development of GEN-009. Genocea plans to initiate a Phase 1/2a clinical trial for GEN-009 in patients with a variety of tumor types in the second half of 2018 and to report top-line immune response data from this trial in the first half of 2019.

### First Quarter 2018 Financial Results

- Cash Position: As of March 31, 2018, cash and cash equivalents were \$51.2 million compared to \$12.3 million as of December 31, 2017.
  - Research and Development (R&D) Expenses: R&D expenses were \$7.3 million for the quarter ended March 31, 2018, compared to \$9.7 million for the same period in 2017. The decrease was largely due to reduced headcount, consulting and professional service costs, and decreased clinical costs.
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- **General and Administrative (G&A) Expenses:** G&A expenses were \$3.1 million for the quarter ended March 31, 2018, compared to \$3.6 million for the same period in 2017. The decrease was primarily due to reduced compensation, consulting, and professional services.
- **Net Loss:** Net loss was \$15.3 million for the quarter ended March 31, 2018, compared to a net loss of \$13.7 million for quarter ended March 31, 2017. The increase in net loss is principally due to the change in fair value of warrants during the first quarter of 2018, related to the January 2018 public offering.

**Financial Guidance**

Genocea expects that its existing cash and cash equivalents are sufficient to support its operating expenses and capital expenditure requirements into the fourth quarter of 2019, having recently refinanced its debt facility with Hercules Capital.

Subsequent to the close of the first quarter ended March 31, 2018 and under its existing at-the-market equity offering program (ATM), Genocea sold an aggregate of 3.6 million shares of its common stock, receiving approximately \$3.1 million in net proceeds after deducting commissions.

Genocea continues to explore strategic alternatives for GEN-003, its Phase 3-ready investigational immunotherapy for the treatment of genital herpes.

**Conference Call**

Genocea will host a conference call and webcast today at 9:00 a.m. ET. The conference call may be accessed by dialing (844) 826-0619 (domestic) or (315) 625-6883 (international) and refer to conference ID number 3866939. A live webcast of the conference call will be available online from the investor relations section of the Company's website at <http://ir.genocea.com>. A webcast replay of the conference call will be available on the Genocea website beginning approximately two hours after the event and will be archived for 30 days.

**About Genocea Biosciences, Inc.**

Genocea's mission is to help conquer cancer by designing and delivering targeted vaccines and immunotherapies. While traditional immunotherapy discovery methods have largely used predictive methods to propose T cell targets, or antigens, Genocea has developed ATLAS™, its proprietary technology platform, to identify clinically relevant antigens of T cells based on actual human immune responses. Genocea is using ATLAS in immuno-oncology applications to develop neoantigen cancer vaccines, while also exploring partnership opportunities for general cancer vaccines and a vaccine targeting cancers caused by Epstein-Barr Virus. Genocea expects to begin clinical development of its first neoantigen cancer vaccine, GEN-009, in 2018. For more information, please visit [www.genocea.com](http://www.genocea.com).

**Forward-Looking Statements**

*This press release includes forward-looking statements, including statements relating to the expected clinical development of GEN-009, within the meaning of the Private Securities Litigation Reform Act. Such forward-looking statements are subject to risks and uncertainties that could cause actual results to differ materially from those expressed or implied in such statements. Genocea cautions that these forward-looking statements are subject to numerous assumptions, risks and uncertainties that change over time. Applicable risks and uncertainties include those identified under the heading "Risk Factors" included in Genocea's Annual Report on Form 10-K for the year ended December 31, 2017 and any subsequent SEC filings. These forward-looking statements speak only as of the date of this press release and Genocea assumes no duty to update forward-looking statements, except as may be required by law.*

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**GENOCEA BIOSCIENCES, INC.**  
**CONDENSED CONSOLIDATED BALANCE SHEETS (UNAUDITED)**  
(In thousands)

	March 31, 2018	December 31, 2017
	<u>          </u>	<u>          </u>
Cash and cash equivalents	\$ 51,179	\$ 12,272
Other assets	5,285	5,215
Total assets	<u>\$ 56,464</u>	<u>\$ 17,488</u>
Debt, current and long-term	\$ 13,874	\$ 14,311
Accounts payable	2,094	3,516
Accrued expenses and other liabilities	4,514	5,711
Warrant liability	21,414	—
Total liabilities	<u>41,896</u>	<u>23,538</u>
Stockholders' equity (deficit)	<u>14,568</u>	<u>(6,050)</u>
Total liabilities and stockholders' equity	<u>\$ 56,464</u>	<u>\$ 17,488</u>

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**GENOCEA BIOSCIENCES, INC.**  
**CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (UNAUDITED)**  
(In thousands, except per share amounts)

	Three months ended	
	March 31,	
	2018	2017
Operating expenses:		
Research and development	\$ 7,275	\$ 9,742
General and administrative	3,109	3,634
Total operating expenses	10,384	13,376
Loss from operations	(10,384)	(13,376)
Other expense:		
Change in fair value of warrants	(4,697)	—
Interest expense, net	(208)	(359)
Total other expense	(4,905)	(359)
Net loss	\$ (15,289)	\$ (13,735)
Net loss per share - basic and diluted	\$ (0.21)	\$ (0.48)
Weighted-average number of common shares used in computing net loss per share	71,238	28,496