UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 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): May 2, 2019

GlycoMimetics, Inc.
(Exact name of registrant as specified in its charter)

Delaware	**001-36177**	**06-1686563**
(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)

9708 Medical Center Drive
Rockville, MD 20850
(Address of principal executive offices, including zip code)

(240) 243-1201
(Registrant's telephone number, including area code)

N/A
(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 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. ☑

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	**Trading Symbol(s)**	**Name of each exchange on which registered**
Common Stock, $0.001 par value	GLYC	The Nasdaq Stock Market

Item 2.02 Results of Operations and Financial Condition.

On May 2, 2019, GlycoMimetics, Inc. (the "***Registrant***") issued a press release announcing its financial results for the quarter ended March 31, 2019. A copy of this press release is furnished herewith as Exhibit 99.1 to this Current Report and is incorporated herein by reference.

In accordance with General Instruction B.2. of Form 8-K, the information in this Item 2.02, and Exhibit 99.1 hereto, shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "***Exchange Act***"), or otherwise subject to the liability of that section, nor shall it be deemed incorporated by reference in any of the Registrant's filings under the Securities Act of 1933, as amended, or the Exchange Act, whether made before or after the date hereof, regardless of any incorporation language in such a filing, except as expressly set forth by specific reference in such a filing.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number	Exhibit Description
99.1	Press Release, dated May 2, 2019, "GlycoMimetics Reports First Quarter 2019 Results and Recent Operational Highlights"

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.

GLYCOMIMETICS, INC.

By: /s/ Brian M. Hahn
Brian M. Hahn
Chief Financial Officer

Date: May 2, 2019

GLYCOMIMETICS REPORTS FIRST QUARTER 2019 RESULTS AND RECENT OPERATIONAL HIGHLIGHTS

- *Enrolled first patient in National Cancer Institute (NCI)-sponsored Phase 3 trial of uproleselan in older adults with previously untreated acute myeloid leukemia (AML)*

- *Announced plans to initiate a trial of GMI-1359 in individuals with breast cancer in collaboration with the Duke Cancer Institute*

- *Established transition plan to new Chairman of Board of Directors*

ROCKVILLE, MD, MAY 2, 2019 – GlycoMimetics, Inc. (Nasdaq: GLYC) today reported its financial results for the first quarter ended March 31, 2019 and highlighted recent company achievements. Quarter-end cash was $195.6 million.

"The first quarter of 2019 was one of focused activity in the clinical development arena. We continued to identify and initiate new sites and enroll participants in our Company-sponsored Phase 3 trial in relapsed or refractory AML patients. We also worked closely with our two consortia partners to expand our late-stage uproleselan program, culminating in our announcement that the NCI consortium dosed its first patient in its trial in late April. During the same period, we worked with clinical collaborators at Duke Cancer Institute to plan our next trial for GMI-1359, a dual antagonist of E-selectin and CXCR-4, and defined individuals with breast cancer and bone metastases as our initial target study population," said Rachel King, GlycoMimetics Chief Executive Officer.

Key First-Quarter 2019 and Recent Operational Highlights:

- The GlycoMimetics-sponsored pivotal Phase 3 trial of uproleselan in relapsed/refractory AML continues to enroll patients in the US and Australia. Clinical sites across the US, Europe, Canada and Australia continue to be identified and activated.

- The NCI-sponsored clinical trial evaluating uproleselan in newly diagnosed older adults with AML has initiated enrollment.

- Study start-up activities continued for the collaborative Haemato Oncology Foundation for Adults in the Netherlands (HOVON) European study of uproleselan in newly diagnosed patients unfit for chemotherapy.

- The Company announced plans to initiate a proof-of-concept clinical trial of GMI-1359 in individuals with breast cancer whose tumors have spread to bone. The trial will evaluate safety and biomarkers of cancer cell mobilization in individuals with hormone receptor positive metastatic breast cancer.

- Data was published in *Nature Cell Biology* that strongly suggests that E-selectin is key to tumor growth and metastasis to bone and provides further support for the upcoming clinical trial of GMI-1359 in individuals with metastatic breast cancer.

- Dr. Eric Feldman has joined the GlycoMimetics executive team as Vice President, Clinical Development, and Christian Dinneen-Long has joined as Vice President, Corporate Counsel.

- A planned transition is taking place within the Company's Board of Directors. Current Board Chair Jim Barrett, who has held the role since the Company's inception, will not seek re-election as he retires from the Board of Directors and scales back participation in several organizations. Current GlycoMimetics Board Member Tim Pearson will become Board Chair as of the close of the Company's annual meeting on May 17, 2019.

First Quarter 2019 Financial Results:

- Cash position: As of March 31, 2019, GlycoMimetics had cash and cash equivalents of $195.6 million as compared to $209.9 million as of December 31, 2018.

- R&D Expenses: The Company's research and development expenses increased to $11.8 million for the quarter ended March 31, 2019 as compared to $9.0 million for the first quarter of 2018. These increases were primarily the result of the Company's Phase 3 clinical trial in relapsed or refractory AML patients.

- G&A Expenses: The Company's general and administrative expenses increased to $3.4 million for the quarter ended March 31, 2019 as compared to $2.9 million for the quarter ended March 31, 2018. The increase was due to higher patent, legal and non-cash stock-based compensation expenses.

- Shares Outstanding: Shares outstanding as of March 31, 2019 were 43,180,169.

The Company will host a conference call and webcast today at 8:30 a.m. ET. The dial-in number for the conference call is (844) 413-7154 (U.S. and Canada) or (216) 562-0466 (international) and entering passcode 6537429. To access the live audio webcast, or the subsequent archived recording, visit the "Investors - Events & Presentations" section of the GlycoMimetics website at www.glycomimetics.com. The webcast will be recorded and available for replay on the GlycoMimetics website for 30 days following the call.

About Uproleselan (GMI-1271)

Uproleselan (yoo' pro le' sel an) is designed to block E-selectin (an adhesion molecule on cells in the bone marrow) from binding with blood cancer cells as a targeted approach to disrupting well-established mechanisms of leukemic cell resistance within the bone marrow microenvironment. In a Phase 1/2 clinical trial, uproleselan was evaluated in both newly diagnosed elderly and relapsed/refractory patients with AML. In both populations, patients treated with uproleselan together with standard chemotherapy achieved better than expected remission rates and overall survival compared to historical controls, which have been derived from results from third party clinical trials evaluating standard chemotherapy, as well as lower than expected induction-related mortality rates. Treatment in these patient populations was generally well tolerated, with fewer than expected adverse effects. The U.S. Food and Drug Administration (FDA) has granted uproleselan Breakthrough Therapy Designation for the treatment of adult AML patients with relapsed/refractory (R/R) disease. GlycoMimetics is progressing a comprehensive development program across the clinical spectrum of AML.

About Rivipansel

Rivipansel, the most advanced drug candidate in the GlycoMimetics pipeline, is a glycomimetic drug candidate that acts as a pan-selectin antagonist, meaning it binds to all three members of the selectin family – E-, P- and L-selectin. The first potential indication for rivipansel is vaso-occlusive crisis (VOC) of sickle cell disease (SCD), one of the most severe complications of SCD which can result in acute ischemic organ injury at one or more sites. By reducing cell adhesion, activation and inflammation that are believed to contribute to reduced blood flow through the microvasculature during VOC, GlycoMimetics believes that rivipansel could be the first drug to interrupt the underlying cause of VOC, thereby potentially enabling patients to leave the hospital more quickly. Pfizer Inc., the exclusive licensee of rivipansel for clinical development and worldwide commercialization, is conducting a Phase 3 clinical trial for rivipansel in SCD.

About GMI-1359

GMI-1359 is designed to simultaneously inhibit both E-selectin and CXCR4. E-selectin and CXCR4 are both adhesion molecules involved in tumor trafficking and metastatic spread. Preclinical studies indicate that targeting both E-selectin and CXCR4 with a single compound could improve efficacy in the treatment of cancers that involve the bone marrow such as AML and multiple myeloma or in solid tumors that metastasize to the bone, such as prostate cancer and breast cancer. GMI-1359 has completed a Phase 1 clinical trial in healthy volunteers. In the second half of 2019, the Company plans to initiate an exploratory clinical trial in individuals with breast cancer whose tumors have spread to bone.

About GlycoMimetics, Inc.

GlycoMimetics is a clinical-stage biotechnology company focused on the discovery and development of novel glycomimetic drugs to address unmet medical needs resulting from diseases in which carbohydrate biology plays a key role. GlycoMimetics' most advanced drug candidate, rivipansel, a pan-selectin antagonist, is currently being developed for the treatment of vaso-occlusive crisis in sickle cell disease in a Phase 3 trial being conducted by Pfizer Inc., the exclusive licensee of rivipansel for clinical development and worldwide commercialization. GlycoMimetics' wholly owned drug candidate, uproleselan, an E-selectin antagonist, was evaluated in a Phase 1/2 clinical trial as a potential treatment for AML and is being evaluated across a range of patient populations including a Company-sponsored Phase 3 trial in relapsed/refractory AML. GlycoMimetics has also completed a Phase 1 clinical trial with a third drug candidate, GMI-1359, a combined CXCR4 and E-selectin antagonist. GlycoMimetics is located in Rockville, MD in the BioHealth Capital Region. Learn more at www.glycomimetics.com.

Forward-Looking Statements

This press release contains forward-looking statements regarding the clinical development and potential benefits and impact of the Company's drug candidates. Actual results may differ materially from those in these forward-looking statements. For a further description of the risks associated with these statements, as well as other risks facing GlycoMimetics, please see the risk factors described in the Company's annual report on Form 10-K filed with the U.S. Securities and Exchange Commission (SEC) on March 6, 2019, and other filings GlycoMimetics makes with the SEC from time to time. Forward-looking statements speak only as of the date of this release, and GlycoMimetics undertakes no obligation to update or revise these statements, except as may be required by law.

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Source: GlycoMimetics

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GlycoMimetics, Inc.
Condensed Statements of Operations
(In thousands, except share and per share data)

	Three months ended March 31,	
	2019	2018
	(Unaudited)	
Revenue	$ —	$ —
Costs and expenses:		
Research and development expense	11,773	9,022
General and administrative expense	3,360	2,855
Total costs and expenses	15,133	11,877
Loss from operations	(15,133)	(11,877)
Other income	1,049	364
Net loss and comprehensive loss	$ (14,084)	$ (11,513)
Net loss per common share – basic and diluted	$ (0.33)	$ (0.33)
Weighted average common shares – basic and diluted	43,166,967	35,156,090

GlycoMimetics, Inc.
Balance Sheet Data
(In thousands)

	March 31, 2019 (unaudited)	December 31, 2018
Cash and cash equivalents	$ 195,561	$ 209,918
Working capital	190,083	203,506
Total assets	204,442	214,839
Total liabilities	11,648	9,375
Total stockholders' equity	192,794	205,464