
**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): May 8, 2018

Zafgen, Inc.

(Exact name of registrant as specified in its charter)

DELAWARE
(State or other jurisdiction
of incorporation)

001-36510
(Commission
File Number)

20-3857670
(I.R.S. Employer
Identification No.)

175 Portland Street, 4th Floor
Boston, Massachusetts
(Address of principal executive offices)

02114
(Zip Code)

Registrant's telephone number, including area code (617) 622-4003

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 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 8, 2018, Zafgen, Inc. announced its financial results for the first quarter of 2018. A copy of the press release is being furnished as Exhibit 99.1 to this Report on Form 8-K and is incorporated by reference herein.

The information in this Report on Form 8-K and Exhibit 99.1 attached hereto is intended to be furnished and shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934 (the “Exchange Act”) or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933 or the Exchange Act, except as expressly set forth by specific reference in such filing.

Item 9.01 Financial Statements and Exhibits

(d) Exhibits

| <u>Exhibit No.</u> | <u>Description</u> |
|--------------------|--|
| 99.1 | Press release issued by Zafgen, Inc. on May 8, 2018, furnished herewith. |

EXHIBIT INDEX

**Exhibit
No.**

Description

99.1 [Press release issued by Zafgen, Inc. on May 8, 2018, furnished herewith.](#)

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.

Date: May 8, 2018

ZAFGEN, INC.

By: /s/ Jeffrey S. Hatfield
Jeffrey S. Hatfield
Chief Executive Officer



Zafgen Reports First Quarter 2018 Operating and Financial Results

Multiple ZGN-1061 abstracts accepted for presentation at upcoming American Diabetes Association (ADA) Scientific Sessions

ZGN-1061 Phase 1 SAD / MAD data published in Diabetes, Obesity and Metabolism

Boston, Mass., May 8, 2018 – Zafgen, Inc. (Nasdaq:ZFGN), a clinical-stage biopharmaceutical company leveraging its proprietary knowledge of MetAP2 systems biology to develop novel therapies for patients affected by a range of metabolic diseases, today reported its first quarter 2018 financial results.

“Zafgen is building significant momentum across our pipeline in 2018, following intense foundational scientific work in 2017. The positive interim clinical data from our ongoing Phase 2 proof-of-concept trial with ZGN-1061, as well as the initiation of IND enabling studies with ZGN-1258, demonstrate important progress across our two most advanced programs,” said Jeffrey Hatfield, Chief Executive Officer. “Our team has also produced multiple journal publications and scientific conference presentations outlining our scientific progress recently, with the opportunity to present more at the upcoming ADA Scientific Sessions. Additionally, we look forward to announcing full topline data from our Phase 2 ZGN-1061 proof-of-concept trial mid-year 2018 and initiating a Phase 1 clinical trial for ZGN-1258 by year end.”

Recent Corporate and Clinical Highlights

ZGN-1061

- In the first quarter of 2018, Zafgen announced positive interim data from the ongoing Phase 2 proof-of-concept trial of ZGN-1061 in type 2 diabetes, including clinically and statistically significant efficacy and a favorable safety profile compared to placebo. Topline data from this ongoing clinical trial is expected mid-year 2018.
- Based on the positive efficacy, safety and tolerability data from this interim analysis, Zafgen has opted to explore the higher end of ZGN-1061’s target engagement range by adding a 1.8 mg dose cohort to the clinical trial. Results from this additional cohort are expected to be announced in early 2019.
- Zafgen reports today that the American Diabetes Association has accepted three ZGN-1061 abstracts for presentation at the 78th Annual Scientific Sessions which begin June 22, 2018. These include:
 - o ZGN-1061 Phase 2 proof-of-concept trial update
 - o ZGN-1061 and GLP-1 effects, alone and in combination, on A1C and weight in diet-induced obesity (DIO) rats, a standard model for diabetes and obesity
 - o ZGN-1061 effects on metabolic parameters, hepatic pathology and non-alcoholic fatty liver disease activity score (NAS) in DIO-NASH mice
- ZGN-1061 data were recently highlighted in two significant publications in peer reviewed journals:
 - o ZGN-1061 SAD / MAD data were published in *Diabetes, Obesity and Metabolism*
 - o ZGN-1061 mechanism of safety differentiation published in the *Journal of Pharmacology and Experimental Therapeutics*

ZGN-1258

- In the first quarter of 2018, Zafgen advanced ZGN-1258 into IND enabling studies, focusing on Prader-Willi syndrome (PWS) as an initial indication. The Company unveiled plans to return to the rare metabolic disease space and initially focus on PWS in January 2018. A Phase 1 clinical trial for ZGN-1258 is expected to begin in the fourth quarter of 2018. Zafgen also plans to launch a global PWS natural history study mid-year 2018 to provide important context for the ZGN-1258 clinical program.

Pipeline

- Zafgen continues to leverage its novel, proprietary MetAP2 biology platform to identify an orally dosed development candidate for liver specific metabolic conditions such as NASH by year end 2018. Zafgen presented early data from this program recently, at the annual NASH Summit conference in April.

First Quarter 2018 Financial Results

“Zafgen is well positioned to support multiple potential value creating milestones in 2018 as we continue to progress ZGN-1061 towards a Phase 2 topline data readout mid-year and continues to advance ZGN-1258 towards the clinic later this year,” said Patricia Allen, Chief Financial Officer. “With a cash, cash equivalents and marketable securities balance of \$89 million at March 31, 2018, we expect our cash runway to extend into the second half of 2019.”

Cash, Cash Equivalents and Marketable Securities

As of March 31, 2018, the Company had cash, cash equivalents and marketable securities totaling \$89.1 million.

Net Loss

The Company reported a net loss for the first quarter of 2018 of \$16.0 million, or \$0.58 per share, compared to a net loss of \$13.0 million, or \$0.48 per share, for the first quarter of 2017.

The weighted average common shares (basic and diluted) outstanding used to compute net loss per share were 27,541,594 for the first quarter of 2018 compared to 27,350,673 for the same quarter of 2017.

Research and Development Expenses

Research and development expenses for the first quarter of 2018 were \$12.4 million compared to \$9.7 million for the first quarter of 2017. The increase in research and development expenses compared to the prior year period was primarily due to increased costs related to ZGN-1258 as the program advances through IND enabling studies and an increase in discovery and screening of new MetAP2 inhibitors. The increase was partially offset by an overall decrease in spend related to the ZGN-1061 program, which had decreased nonclinical and manufacturing costs, partially offset by increased clinical trial costs, as compared to the prior year period.

General and Administrative Expenses

General and administrative expenses for the first quarter of 2018 were \$3.3 million, compared to \$3.6 million for the first quarter of 2017. The decrease in general and administrative expenses as compared to the prior year period was primarily due to a decrease in non-cash stock-based compensation expense as well as a decrease in professional fees.

2018 Financial Guidance

The Company expects that its cash, cash equivalents and marketable securities balance will be greater than \$40 million as of December 31, 2018.

Conference Call Information

Zafgen will host an investor conference call today, May 8, 2018 at 4:30 p.m., Eastern Time, to discuss the Company's first quarter 2018 results as well as other forward-looking information about Zafgen's business. Investors and other interested parties may participate by dialing (844) 824-7428 in the United States or (973) 500-2177 outside the United States and referencing conference ID number 6639039. The call will also be webcast live on the Company's website at <https://zafgen.gcs-web.com/events-and-presentations>. A replay of this conference call will be available beginning at 7:30 p.m. ET on May 8, 2018 through May 15, 2018 by dialing (855) 859-2056 in the United States or (404) 537-3406 outside the United States. To access the replay please provide Conference ID number 6639039.

About Zafgen

Zafgen (Nasdaq:ZFGN) is a clinical-stage biopharmaceutical company leveraging its proprietary knowledge of MetAP2 systems biology to develop novel therapies for patients affected by a range of complex metabolic diseases. Zafgen has pioneered the study of MetAP2 inhibitors in both common and rare metabolic disorders, and its current disease areas of focus are type 2 diabetes, Prader-Willi syndrome and liver diseases. The Company's lead product candidate is ZGN-1061, a MetAP2 inhibitor in Phase 2 clinical development with unique properties that maximize impact on metabolic parameters relevant to the treatment of type 2 diabetes and other related metabolic disorders. In 2018, Zafgen plans to file an investigational new drug (IND) application with the U.S. FDA and initiate Phase 1 clinical trials for ZGN-1258, its new molecule for the treatment of Prader-Willi syndrome and potential other rare and serious forms of obesity. Learn more at www.zafgen.com.

Safe Harbor Statement

Various statements in this release concerning Zafgen's future expectations, plans and prospects, including without limitation, Zafgen's expectations regarding the use of ZGN-1258, ZGN-1061 and other second-generation MetAP2 inhibitors as treatments for metabolic diseases including Prader-Willi syndrome, type 2 diabetes and obesity and Zafgen's expectations with respect to the timing and success of its nonclinical studies and clinical trials of ZGN-1258, ZGN-1061 and its other product candidates, Zafgen's expected cash, cash equivalents and marketable securities balance as of December 31, 2018, and Zafgen's expectations regarding the length of its cash runway, may constitute forward-looking statements for the purposes of the safe harbor provisions under The Private Securities Litigation Reform Act of 1995 and other federal securities laws. Forward-looking statements can be identified by terminology such as "anticipate," "believe," "could," "could increase the likelihood," "estimate," "expect," "intend," "is planned," "may," "should," "will," "will enable," "would be expected," "look forward," "may provide," "would" or similar terms, variations of such terms or the negative of those terms. Actual results may differ materially from those indicated by these forward-looking statements as a result of various important factors, including, without limitation, Zafgen's ability to successfully demonstrate the efficacy and safety of ZGN-1258, ZGN-1061 and its other product candidates and to differentiate ZGN-1258, ZGN-1061 and its other product candidates from first generation MetAP2 inhibitors, such as beloranib, the nonclinical and clinical results for ZGN-1258, ZGN-1061 and its other product candidates, which may not support further development and marketing approval, actions of regulatory agencies, which may affect the initiation, timing and progress of nonclinical studies and clinical trials of its product candidates, Zafgen's ability to obtain, maintain and protect its intellectual property, Zafgen's ability to enforce its patents against infringers and defend its patent portfolio against challenges from third parties, competition from others developing products for similar uses, Zafgen's ability to manage operating expenses, Zafgen's ability to obtain additional funding to support its business activities and establish and maintain strategic business alliances and new business initiatives when needed, Zafgen's dependence on third parties for development, manufacture, marketing, sales and distribution of product candidates, and unexpected expenditures, as well as those risks more fully discussed in the section entitled "Risk Factors" in Zafgen's most recent Annual Report on Form 10-K filed with the Securities and Exchange Commission, as well as discussions of potential risks, uncertainties, and other important factors in Zafgen's subsequent filings with the Securities and Exchange Commission. In addition, any forward-looking statements represent Zafgen's views only as of today and should not be relied upon as representing its views as of any subsequent date. Zafgen explicitly disclaims any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise.

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ZAFGEN, INC.
CONDENSED CONSOLIDATED BALANCE SHEETS
(In thousands, except share and per share data)
(Unaudited)

| | <u>March 31,</u> <u>2018</u> | <u>December 31,</u> <u>2017</u> |
|---|---------------------------------|------------------------------------|
| Assets | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 45,731 | \$ 40,777 |
| Marketable securities | 43,339 | 61,275 |
| Tax incentive receivable | 932 | 946 |
| Prepaid expenses and other current assets | 1,420 | 1,927 |
| Total current assets | <u>91,422</u> | <u>104,925</u> |
| Tax incentive receivable | 581 | — |
| Property and equipment, net | 479 | 528 |
| Other assets | 132 | 57 |
| Total assets | <u>\$ 92,614</u> | <u>\$ 105,510</u> |
| Liabilities and Stockholders' Equity | | |
| Current liabilities: | | |
| Accounts payable | \$ 3,796 | \$ 3,020 |
| Accrued expenses | 3,661 | 4,273 |
| Total current liabilities | 7,457 | 7,293 |
| Notes payable, long-term | 20,160 | 20,000 |
| Total liabilities | <u>27,617</u> | <u>27,293</u> |
| Stockholders' equity: | | |
| Preferred stock; \$0.001 par value per share; 5,000,000 shares authorized as of March 31, 2018 and December 31, 2017; no shares issued and outstanding as of March 31, 2018 and December 31, 2017 | — | — |
| Common stock, \$0.001 par value per share; 115,000,000 shares authorized as of March 31, 2018 and December 31, 2017; 27,558,883 and 27,489,457 shares issued and outstanding as of March 31, 2018 and December 31, 2017, respectively | 28 | 27 |
| Additional paid-in capital | 370,551 | 367,825 |
| Accumulated deficit | (305,533) | (289,577) |
| Accumulated other comprehensive loss | (49) | (58) |
| Total stockholders' equity | <u>64,997</u> | <u>78,217</u> |
| Total liabilities and stockholders' equity | <u>\$ 92,614</u> | <u>\$ 105,510</u> |

ZAFGEN, INC.
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS
(In thousands, except share and per share data)
(Unaudited)

| | Three Months Ended March 31, | |
|---|-------------------------------------|--------------------|
| | 2018 | 2017 |
| Revenue | \$ — | \$ — |
| Operating expenses: | | |
| Research and development | 12,433 | 9,677 |
| General and administrative | 3,269 | 3,588 |
| Total operating expenses | <u>15,702</u> | <u>13,265</u> |
| Loss from operations | <u>(15,702)</u> | <u>(13,265)</u> |
| Other income (expense): | | |
| Interest income | 267 | 227 |
| Interest expense | (458) | (73) |
| Foreign currency transaction gains (losses), net | (63) | 100 |
| Total other income (expense), net | <u>(254)</u> | <u>254</u> |
| Net loss | <u>\$ (15,956)</u> | <u>\$ (13,011)</u> |
| Net loss per share, basic and diluted | <u>\$ (0.58)</u> | <u>\$ (0.48)</u> |
| Weighted average common shares outstanding, basic and diluted | <u>27,541,594</u> | <u>27,350,673</u> |