

**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): February 25, 2021**

**MADRIGAL PHARMACEUTICALS, INC.**

(Exact name of registrant as specified in its charter)

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

**001-33277**  
(Commission  
File Number)

**04-3508648**  
(IRS Employer  
Identification No.)

**Four Tower Bridge  
200 Barr Harbor Drive, Suite 200  
West Conshohocken, PA**  
(Address of principal executive offices)

**19428**  
(Zip Code)

**(267) 824-2827**  
Registrant's telephone number, including area code

(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))

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

| Title of each class                               | Trading<br>Symbol(s) | Name of each exchange<br>on which registered |
|---|----------------------|--|
| <b>Common Stock, \$0.0001 Par Value Per Share</b> | <b>MDGL</b>          | <b>The NASDAQ Stock Market LLC</b>           |

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.

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

On February 25, 2021 Madrigal Pharmaceuticals, Inc. issued a press release announcing its results for its fourth fiscal quarter and fiscal year ended December 31, 2020. A copy of the press release is furnished herewith as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

The information in this Current Report on Form 8-K and the accompanying Exhibit 99.1 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 liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, regardless of any general incorporation language in such filing, unless expressly incorporated by reference in such filing.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

| <b><u>Exhibit Number</u></b> | <b><u>Description</u></b>   |
|------------------------------|---|
| 99.1                         | <a href="#">Press Release Dated February 25, 2021.</a>                  |
| 104                          | Cover Page Interactive Data File (embedded within the Inline XBRL file) |

**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.

**MADRIGAL PHARMACEUTICALS, INC.**

By: /s/ Brian J. Lynch

Name: Brian J. Lynch

Title: Senior Vice President and General Counsel

Date: February 25, 2021



**Madrigal Pharmaceuticals Reports 2020 Fourth Quarter  
and Full Year Financial Results and Highlights**

WEST CONSHOHOCKEN, Pa., February 25, 2021 — Madrigal Pharmaceuticals, Inc. (NASDAQ:MDGL) announced today its fourth quarter and full year 2020 financial results and highlights.

“We are pleased with the substantial progress the Company made in 2020, particularly in light of the significant challenges resulting from the COVID-19 pandemic,” stated Paul Friedman, M.D., Chief Executive Officer of Madrigal. “We completed enrollment in the Company’s Phase 3 MAESTRO-NAFLD-1 trial in less than 12 months, and we also made significant progress in enrollment of our Phase 3 MAESTRO-NASH trial.”

Dr. Friedman continued, “We advanced the development of Madrigal’s commercial capabilities in 2020, with Remy Sukhija joining the Company as Senior Vice President and Chief Commercial Officer. Remy and his team have embarked on detailed analyses of the market opportunity for resmetirom as we continue to execute our Phase 3 clinical programs.”

Becky Taub, M.D., Chief Medical Officer and President of Research & Development of Madrigal, stated, “Because of enthusiasm from patients and investigators who wanted to participate in the study, we expanded enrollment in MAESTRO-NAFLD-1 to more than 1,200 patients, which provides a robust safety database and provides further opportunity to study selected patient subgroups. We completed enrollment in the blinded arms of the trial in October, and we presented 16-week data from the open label arm of the trial in November 2020, at The Liver Meeting Digital Experience™, The American Association for the Study of Liver Diseases Meeting.”

Dr. Taub continued, “We expect to achieve several important clinical milestones in 2021, including completion of enrollment in the 52-week, serial liver biopsy population for Subpart H approval of MAESTRO-NASH, which we expect to complete in the second quarter; presentation of data from the open label arm of MAESTRO-NAFLD-1 at a major medical conference; and release of topline data from the blinded arms of MAESTRO-NAFLD-1 by the end of the year.”

**Financial Results for the Three and Twelve Months Ended December 31, 2020**

As of December 31, 2020, Madrigal had cash, cash equivalents and marketable securities of \$284.1 million, compared to \$439.0 million at December 31, 2019. The decrease in cash and marketable securities resulted primarily from cash used in operations of \$157.6 million.

Operating expenses were \$59.6 million and \$206.7 million for the three and twelve month periods ended December 31, 2020, compared to \$30.0 million and \$95.0 million in the comparable prior year periods.

Research and development expenses for the three and twelve month periods ended December 31, 2020 were \$53.4 million and \$184.8 million, compared to \$24.9 million and \$72.3 million in the comparable prior year periods. The increases are primarily attributable to additional activities related to the Phase 3 clinical trials initiated in 2019, an increase in manufacturing costs to support ongoing clinical trials and to prepare for commercialization, and an increase in head count and related expenses.

General and administrative expenses for the three and twelve month periods ended December 31, 2020 were \$6.1 million and \$21.9 million, compared to \$5.0 million and \$22.6 million in the comparable prior year periods. The increase in general and administrative expenses for the latest three month period is due primarily to increases in head count and consulting costs. The decrease in general and administrative expenses for the latest twelve month period was due primarily to a decrease in non-cash stock compensation from stock option awards, which was partially offset by increases in other general and administrative expenses.

Interest income for the three and twelve month periods ended December 31, 2020 was \$0.4 million and \$4.3 million, compared to \$2.2 million and \$11.0 million in the comparable prior year periods. The decreases in interest income for the latest three and twelve month periods were due primarily to lower average principal balances in our investment accounts in 2020, and decreased interest rates.

#### **About Resmetirom (MGL-3196)**

Thyroid hormone, through activation of its  $\beta$ -receptor in hepatocytes, plays a central role in liver function impacting a range of health parameters from levels of serum cholesterol and triglycerides to the pathological buildup of fat in the liver. Thyroid hormone receptor (THR)- $\beta$  action in the liver is key to proper function of the liver, including regulation of mitochondrial activity such as breakdown of liver fat and control of the level of normal, healthy mitochondria. Patients with NASH have reduced levels of thyroid hormone activity in the liver with resultant impaired hepatic function, in part due to the inflamed state of the liver that causes degradation of thyroid hormone.

To exploit the thyroid hormone receptor (THR)- $\beta$  pathway for therapeutic purposes in cardio-metabolic and liver diseases, it is important to avoid activity at the THR- $\alpha$  receptor, the predominant systemic receptor for thyroid hormone that is responsible for activity outside the liver including in heart and bone. The lack of selectivity of older thyromimetic compounds, chemically-related toxicities and undesirable distribution in the body led to safety concerns. Madrigal recognized that greater selectivity for thyroid hormone receptor (THR)- $\beta$  and liver targeting might overcome these challenges and deliver the full therapeutic potential of THR- $\beta$  agonism. Resmetirom has been shown to be highly selective based on 1) THR- $\beta$  receptor

functional selectivity based on both in vitro and in vivo assays and 2) specific uptake into the liver, its site of action, virtually avoiding any uptake into tissues outside the liver. In short and long term human and animal studies, resmetirom has been confirmed to be safe and devoid of activity at the THR- $\alpha$  receptor and without impact on bone or cardiac parameters. Resmetirom does not impact the thyroid axis hormones, including the central thyroid axis. Madrigal believes that resmetirom is the first orally administered, small-molecule, liver-directed, truly  $\beta$ -selective THR agonist.

### **About the Phase 3 Registration Program for the Treatment of NASH (Non-alcoholic steatohepatitis)**

Analyses from the resmetirom Phase 2 NASH study demonstrate that the magnitude of liver fat reduction accurately predicts NASH resolution and liver fibrosis reduction and, specifically, that the resmetirom doses being used in Madrigal's Phase 3 MAESTRO-NASH trial could achieve the level of fat reduction predictive of NASH resolution and fibrosis reduction [[Madrigal COVID and ABSTRACT Press Release\\_20200414](#)].

The Phase 3 MAESTRO-NASH trial is expected to enroll 900 patients with biopsy-proven NASH (fibrosis stage 2 or 3), randomized 1:1:1 to receive resmetirom 80 mg once a day, 100 mg once a day, or placebo. After 52 weeks of treatment a second biopsy is performed. The primary surrogate endpoint on biopsy will be NASH resolution, with at least a 2-point reduction in NAS (NASH Activity Score), and with no worsening of fibrosis. Two key secondary endpoints are liver fibrosis improvement of at least one stage, with no worsening of NASH, and lowering of LDL-cholesterol [[ClinicalTrials.gov/NCT03900429](#)].

A second 52-week Phase 3 multi-center, double-blind, randomized, placebo-controlled study of resmetirom, MAESTRO-NAFLD-1, was initiated in December 2019 in 700 patients with non-alcoholic fatty liver disease (NAFLD), presumed NASH, randomized 1:1:1 to receive resmetirom 80 mg once a day, 100 mg once a day, or placebo. MAESTRO-NAFLD-1 also includes a 100 mg resmetirom open label arm in up to 100 patients. The trial was expanded to include more than 1,200 patients, in order to significantly enhance resmetirom's safety database and provide further opportunity to study selected patient subgroups. Unlike MAESTRO-NASH, MAESTRO-NAFLD-1 is a non-biopsy study and represents a "real-life" NASH study. NASH or presumed NASH is documented using historical liver biopsy or non-invasive techniques including fibroscan and MRI-PDFF. Using non-invasive measures, MAESTRO-NAFLD-1 is designed to provide incremental safety information to support the NASH indication as well as provide additional data regarding clinically relevant key secondary efficacy endpoints to better characterize the potential clinical benefits of resmetirom on cardiovascular and liver related endpoints. These key secondary endpoints include LDL-cholesterol, apolipoprotein B and triglyceride (TG) lowering; reduction of liver fat as determined by magnetic resonance imaging, proton density fat fraction (MRI-PDFF); and reduction of PRO-C3, a NASH fibrosis biomarker. [[ClinicalTrials.gov/NCT04197479](#)] Additional secondary and exploratory endpoints will be assessed including reduction in liver enzymes, fibroscan scores and other fibrosis and inflammatory biomarkers.

These and other data, including safety parameters, form the basis for potential subpart H submission to FDA for accelerated approval for the treatment of NASH. The original 900 patients in the MAESTRO-NASH study will continue on therapy after the initial 52-week treatment period; up to another 1,100 patients are to be added using the same randomization plan and the study is expected to continue for up to 54 months to accrue and measure clinical events, most relevantly progression to cirrhosis.

#### **About Resmetirom's Potential to Confer Cardiovascular Risk Reduction in NASH patients**

Additionally, resmetirom lowers multiple atherogenic lipids, including LDL cholesterol, apolipoprotein B, triglycerides, and lipoprotein (a), as demonstrated in Phase 2, a key differentiating factor compared with other NASH therapeutics. The magnitude of reduction of these lipids support a potential indication for treatment of hyperlipidemia in NASH patients and predicts a potential for benefit on cardiovascular (CV) events in NASH patients who die most frequently of CV, not liver disease.

Because of their diabetes, dyslipidemia, hypertension, obesity in concert with an inflamed, fatty liver, NASH patients, particularly those with advanced fibrosis, are at a substantially increased CV risk compared to the general population. Resmetirom's ability to decrease liver fat, which is an independent risk factor for CV events, and resmetirom's effect to reduce atherogenic lipids are being further evaluated in several key secondary endpoints in both MAESTRO Phase 3 clinical studies.

#### **About Madrigal Pharmaceuticals**

Madrigal Pharmaceuticals, Inc. (Nasdaq: MDGL) is a clinical-stage biopharmaceutical company pursuing novel therapeutics that target a specific thyroid hormone receptor pathway in the liver, which is a key regulatory mechanism common to a spectrum of cardio-metabolic and fatty liver diseases with high unmet medical need. Madrigal's lead candidate, resmetirom, is a first-in-class, orally administered, small-molecule, liver-directed, thyroid hormone receptor (THR)- $\beta$  selective agonist that is currently in two Phase 3 clinical studies, MAESTRO-NASH and MAESTRO-NAGLD-1, designed to demonstrate multiple benefits across a broad spectrum of NASH (non-alcoholic steatohepatitis) and NAFLD (non-alcoholic fatty liver disease) patients. For more information, visit [www.madrigalpharma.com](http://www.madrigalpharma.com).

#### **Forward-Looking Statements**

*This communication contains "forward-looking statements" made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, that are based on our beliefs and assumptions and on information currently available to us, but are subject to factors beyond our control. Forward-looking statements include but are not limited to statements or references concerning: our clinical trials; research and development activities; the timing and results associated with the future development of our lead product candidate, MGL-3196 (resmetirom); the timing and completion of projected 2021 clinical milestone events; our primary and secondary study endpoints for resmetirom and the potential for achieving such endpoints and projections; optimal dosing levels for resmetirom; projections regarding potential future NASH resolution, safety, fibrosis treatment, cardiovascular effects, lipid treatment or biomarker*

effects with resmetirom; the predictive power of liver fat reduction on NASH resolution with fibrosis reduction or improvement; the achievement of enrollment objectives concerning patient number, safety database and/or timing for our studies; potential NASH or NAFLD patient risk profile benefits with resmetirom; and our possible or assumed future results of operations and expenses, business strategies and plans, capital needs and financing plans, trends, market sizing, competitive position, industry environment and potential growth opportunities, among other things. Forward-looking statements: reflect management's current knowledge, assumptions, judgment and expectations regarding future performance or events; include all statements that are not historical facts; and can be identified by terms such as "allow," "anticipates," "be," "believes," "continue," "could," "demonstrates," "design," "estimates," "expects," "forecasts," "future," "goal," "hopeful," "intends," "may," "might," "plans," "potential," "predicts," "predictive," "projects," "seeks," "should," "will," "would" or similar expressions and the negatives of those terms. Although management presently believes that the expectations reflected in such forward-looking statements are reasonable, it can give no assurance that such expectations will prove to be correct and you should be aware that actual results could differ materially from those contained in the forward-looking statements.

Forward-looking statements are subject to a number of risks and uncertainties including, but not limited to: our clinical development of resmetirom; enrollment uncertainties, generally and in relation to COVID-19 shelter-in-place and social distancing measures and individual precautionary measures that may be implemented or continued for an uncertain period of time; outcomes or trends from competitive studies; future topline data timing or results; the risks of achieving potential benefits in studies that include substantially more patients than our prior studies; the timing and outcomes of clinical studies of resmetirom; and the uncertainties inherent in clinical testing. Undue reliance should not be placed on forward-looking statements, which speak only as of the date they are made. Madrigal undertakes no obligation to update any forward-looking statements to reflect new information, events or circumstances after the date they are made, or to reflect the occurrence of unanticipated events. Please refer to Madrigal's filings with the U.S. Securities and Exchange Commission for more detailed information regarding these risks and uncertainties and other factors that may cause actual results to differ materially from those expressed or implied. We specifically discuss these risks and uncertainties in greater detail in the section entitled "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2020, as well as in our other filings with the SEC.

**Investor Contact:**

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**(Tables Follow)**



**Madrigal Pharmaceuticals, Inc.**  
**Condensed Consolidated Statements of Operations**  
(in thousands, except share and per share amounts)  
(unaudited)

|  | Three Months Ended<br>December 31, |             | Twelve Months Ended<br>December 31, |             |
|--|------------------------------------|-------------|-------------------------------------|-------------|
|  | 2020                               | 2019        | 2020                                | 2019        |
| <b>Revenues:</b>   |                                    |             |                                     |             |
| Total revenues   | \$ —                               | \$ —        | \$ —                                | \$ —        |
| <b>Operating expenses:</b>   |                                    |             |                                     |             |
| Research and development   | 53,429                             | 24,910      | 184,809                             | 72,324      |
| General and administrative   | 6,126                              | 5,044       | 21,864                              | 22,648      |
| Total operating expenses   | 59,555                             | 29,954      | 206,673                             | 94,972      |
| Loss from operations   | (59,555)                           | (29,954)    | (206,673)                           | (94,972)    |
| Interest income, net   | 432                                | 2,214       | 4,329                               | 11,024      |
| Other income   | —                                  | —           | 100                                 | —           |
| Net loss   | \$ (59,123)                        | \$ (27,740) | \$ (202,244)                        | \$ (83,948) |
| Basic and diluted net loss per common share                            | \$ (3.82)                          | \$ (1.80)   | \$ (13.09)                          | \$ (5.45)   |
| Basic and diluted weighted average number of common shares outstanding | 15,475,291                         | 15,429,154  | 15,446,638                          | 15,394,659  |

**Madrigal Pharmaceuticals, Inc.**  
**Condensed Consolidated Balance Sheets**  
(in thousands)  
(unaudited)

|  | December 31,<br>2020 | December 31,<br>2019 |
|--|----------------------|----------------------|
| <b>Assets</b>                                    |                      |                      |
| Cash, cash equivalents and marketable securities | \$ 284,149           | \$ 439,045           |
| Other current assets                             | 1,014                | 1,152                |
| Other non-current assets                         | 1,832                | 1,859                |
| Total assets                                     | <u>\$ 286,995</u>    | <u>\$ 442,056</u>    |
| <b>Liabilities and Equity</b>                    |                      |                      |
| Current liabilities                              | \$ 46,557            | \$ 25,130            |
| Long-term liabilities                            | 468                  | 361                  |
| Stockholders' equity                             | 239,970              | 416,565              |
| Total liabilities and stockholders' equity       | <u>\$ 286,995</u>    | <u>\$ 442,056</u>    |