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**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): January 18, 2024**



**NEUROBO PHARMACEUTICALS, INC.**

(Exact name of Registrant as Specified in Its Charter)

**Delaware**  
**(State or other jurisdiction**

**001-37809**  
**(Commission**

**47-2389984**  
**(IRS Employer**

**of incorporation)**

**File Number)**

**Identification No.)**

**545 Concord Avenue, Suite 210  
Cambridge, Massachusetts 02138**

(Address of principal executive offices, including Zip Code)

**Registrant's Telephone Number, Including Area Code: (857) 702-9600**

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(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol(s)</u>	<u>Name of each exchange on which registered</u>
<b>Common Stock, par value \$0.001 per share</b>	<b>NRBO</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 8.01 Other Events.**

On January 18, 2024, NeuroBo Pharmaceuticals, Inc. (the “Company”) issued a press release announcing positive pre-clinical safety data of DA-1241, a novel G-Protein-Coupled Receptor 119 (GPR119) agonist, in combination with sitagliptin, a DPP4 inhibitor. Additionally, having satisfied its 45-day commitment with the U.S. Food and Drug Administration (FDA) related to its amended protocol, the Company has opened enrollment for Part 2 of its Phase 2a clinical trial of DA-1241 when co-administered with sitagliptin for the treatment of metabolic dysfunction-associated steatohepatitis (MASH).

A copy of the press release is filed as Exhibit 99.1 to this Current Report on Form 8-K and incorporated herein by reference.

Information contained on or accessible through any website reference in the press release is not part of, or incorporated by reference in, this Current Report on Form 8-K, and the inclusion of such website addresses in this Current Report on Form 8-K by incorporation by reference of the press release is as inactive textual references only.

**Item 9.01. Financial Statements and Exhibits.****(d) Exhibits**

<b>Exhibit Number</b>	<b>Exhibit Description</b>
99.1	<a href="#">Press Release dated January 18, 2024</a>
104	Cover Page Interactive Data File (embedded within Inline XBRL document).

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**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.

**NEUROBO PHARMACEUTICALS, INC.**

Date: January 18, 2024

By: /s/ Hyung Heon Kim

Hyung Heon Kim

*President and Chief Executive Officer*

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**NeuroBo Pharmaceuticals Reports Positive Pre-Clinical Safety Data of DA-1241 in Combination with Sitagliptin and Opens Enrollment for Part 2 of Its Phase 2a Clinical Trial Evaluating DA-1241 for the Treatment of MASH**

*Full Data Readout Expected in the Second Half of 2024*

**CAMBRIDGE, Mass., January 18, 2024 – NeuroBo Pharmaceuticals, Inc.** (Nasdaq: NRBO), a clinical-stage biotechnology company focused on transforming cardiometabolic diseases, today announced positive pre-clinical safety data of DA-1241, a novel G-Protein-Coupled Receptor 119 (GPR119) agonist, in combination with sitagliptin, a DPP4 inhibitor. Additionally, having satisfied its 45-day commitment with the U.S. Food and Drug Administration (FDA) related to its amended protocol, the company has opened enrollment for Part 2 of its Phase 2a clinical trial of DA-1241 when co-administered with sitagliptin for the treatment of metabolic dysfunction-associated steatohepatitis (MASH).

The pre-clinical results demonstrated that once daily oral administration in rats, of sitagliptin alone (180 mg/kg/day), DA-1241 alone (100 mg/kg/day), or sitagliptin in combination with DA-1241 (up to 180/100 mg/kg/day sitagliptin+DA-1241) for 13 weeks, was well tolerated with no adverse effects.

“Initiating Part 2 of our clinical study of DA-1241 in MASH patients paves the way to begin dosing in combination with sitagliptin, marking another significant clinical milestone for our most advanced asset,” stated Hyung Heon Kim, President and Chief Executive Officer of NeuroBo. “Based on the pre-clinical evidence to date, DA-1241 has been shown to improve both hepatic and systemic inflammation effectively, and the combination with sitagliptin increased the anti-inflammatory effects compared to DA-1241 as a monotherapy. As previously reported, DA-1241 was also well tolerated in healthy volunteers and in patients with type 2 diabetes mellitus (T2DM). Given the totality of this data, we believe that the mechanism of action could allow DA-1241 to become a safe and effective treatment for MASH, and its anti-MASH and anti-diabetic effects could be potentiated when co-administered with a DPP4 inhibitor. We expect to report the full data from the Part 2 trial in the second half of 2024.”

Each of the two-parts of the Phase 2a trial of DA-1241 is designed to be a 16-week, multicenter, randomized, double-blind, placebo-controlled, parallel clinical study to evaluate the efficacy and safety of DA-1241 in subjects with presumed MASH. Part 1, currently dosing subjects, is exploring the efficacy of DA-1241 versus placebo, and is expected to enroll approximately 49 subjects, who will be randomized in a 1:2:1 ratio into 3 treatment groups: DA-1241 50 mg, DA-1241 100 mg, or placebo.

Part 2 will explore the efficacy of DA-1241 in combination with sitagliptin, versus placebo, is expected to enroll approximately 37 subjects, who will be randomized in a 2:1 ratio into 2 treatment groups: DA-1241 100 mg/sitagliptin 100 mg or placebo.

For both Part 1 and Part 2, the primary endpoint is the change from baseline in alanine transaminase (ALT) levels at Week 16. Secondary efficacy endpoints include the proportion of subjects with normalization of ALT, absolute change in total cholesterol, low and high-density lipoprotein cholesterol, triglyceride, and

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free fatty acids from baseline, among others. Safety will be evaluated by monitoring adverse events (AEs), serious adverse events (SAEs) and AEs leading to discontinuation and laboratory abnormalities.

#### **About DA-1241**

DA-1241 is a novel G-Protein-Coupled Receptor 119 (GPR119) agonist with development optionality as a standalone and/or combination therapy for both MASH and T2DM. In preclinical studies, DA-1241 demonstrated that GPR-119 agonism promotes the release of the key gut peptides GLP-1, GIP, and PYY, which have a beneficial effect on liver inflammation, lipid metabolism, weight loss, and glucose metabolism. The therapeutic potential of DA-1241 has been demonstrated in multiple pre-clinical animal models of MASH and T2DM whereby DA-1241 reduced hepatic steatosis, hepatic inflammation, and liver fibrosis, while also improving glucose control. Furthermore, in Phase 1a and 1b trials, DA-1241 was well tolerated in both healthy volunteers and those with T2DM.

#### **About NeuroBo Pharmaceuticals**

NeuroBo Pharmaceuticals, Inc. is a clinical-stage biotechnology company focused on transforming cardiometabolic diseases. The company is currently developing DA-1241 for the treatment of Metabolic Dysfunction-Associated Steatohepatitis (MASH) and Type 2 Diabetes Mellitus (T2DM), and is developing DA-1726 for the treatment of obesity. DA-1241 is a novel G-protein-coupled receptor 119 (GPR119) agonist that promotes the release of key gut peptides GLP-1, GIP, and PYY. In preclinical studies, DA-1241 demonstrated a positive effect on liver inflammation, lipid metabolism, weight loss, and glucose metabolism, reducing hepatic steatosis, hepatic inflammation, and liver fibrosis, while also improving glucose control. DA-1726 is a novel oxyntomodulin (OXM) analogue that functions as a glucagon-like peptide-1 receptor (GLP1R) and glucagon receptor (GCGR) dual agonist. OXM is a naturally-occurring gut hormone that activates GLP1R and GCGR, thereby decreasing food intake while increasing energy expenditure, thus potentially resulting in superior body weight loss compared to selective GLP1R agonists.

For more information, please visit [www.neurobopharma.com](http://www.neurobopharma.com).

#### **Forward Looking Statements**

Certain statements in this release may be considered forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as “believes”, “expects”, “anticipates”, “may”, “will”, “should”, “seeks”, “approximately”, “intends”, “projects,” “plans”, “estimates” or the negative of these words or other comparable terminology (as well as other words or expressions referencing future events, conditions or circumstances) are intended to identify forward-looking statements. Forward-looking statements are predictions, projections and other statements about future events that are based on current expectations and assumptions and, as a result, are subject to risks and uncertainties. Many factors could cause actual future events to differ materially from the forward-looking statements in this release, including, without limitation, those risks associated with NeuroBo’s ability to execute on its commercial strategy; the timeline for regulatory submissions; ability to obtain regulatory approval through the development steps of NeuroBo’s current and future product candidates, the ability to realize the benefits of the license agreement with Dong-A ST Co. Ltd., including the impact on future financial and operating results of NeuroBo; the cooperation of our contract manufacturers, clinical study partners and others involved in the development of NeuroBo’s current and future product candidates; potential negative interactions between our product candidates and any other products with which they are combined for treatment; NeuroBo’s ability to initiate and complete clinical trials on a timely basis; our ability to recruit subjects for its clinical trials; whether NeuroBo receives results from NeuroBo’s clinical trials that are consistent with the results of pre-clinical and previous clinical trials; impact of costs related to the license agreement, known and unknown, including costs of any litigation or regulatory actions

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relating to the license agreement; effects of changes in applicable laws or regulations; effects of changes to NeuroBo's stock price on the terms of the license agreement and any future fundraising; and other risks and uncertainties described in our filings with the SEC. Forward-looking statements speak only as of the date when made. NeuroBo does not assume any obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

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