
**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): September 12, 2016

Rexahn Pharmaceuticals, Inc.

(Exact Name of Registrant as Specified in its Charter)

Delaware
(State or other jurisdiction of Incorporation)

001-34079
(Commission File Number)

11-3516358
(I.R.S. Employer Identification No.)

15245 Shady Grove Road, Suite 455
Rockville, MD
(Address of principal executive offices)

20850
(Zip Code)

Registrant's telephone number, including area code: (240) 268-5300

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))
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Section 7 – Regulation FD

Item 7.01 Regulation FD Disclosure.

On September 12, 2016, Rexahn Pharmaceuticals, Inc., a Delaware corporation (the “Company”), issued a press release announcing the initiation of stage 2 of the Phase Ib/IIa clinical trial with the novel oral anti-cancer agent RX-3117 in relapsed or refractory pancreatic cancer patients.

A copy of the press release is furnished as Exhibit 99.1 to this Current Report on Form 8-K.

Section 9 – Financial Statements and Exhibits

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

<u>Exhibit No.</u>	<u>Description</u>
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99.1	Rexahn Pharmaceuticals, Inc. press release dated September 12, 2016, announcing the initiation of stage 2 of the Phase Ib/IIa clinical trial with the novel oral anti-cancer agent RX-3117 in relapsed or refractory pancreatic cancer patients.
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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.

REXAHN PHARMACEUTICALS, INC.

Date: September 12, 2016

/s/ Tae Heum Jeong

Tae Heum Jeong

Senior Vice President of Finance and Chief Financial Officer

Exhibit Index

<u>Exhibit No.</u>	<u>Description</u>
<u>99.1</u>	Rexahn Pharmaceuticals, Inc. press release dated September 12, 2016, announcing the initiation of stage 2 of the Phase Ib/IIa clinical trial with the novel oral anti-cancer agent RX-3117 in relapsed or refractory pancreatic cancer patients.



***Rexahn Pharmaceuticals Initiates stage 2 of Phase Ib/IIa Clinical Trial of
RX-3117 in Relapsed or Refractory Metastatic Pancreatic Cancer***

Predefined Criteria for Preliminary Efficacy Achieved in Pancreatic Cancer Patients for Whom Three Prior Therapies had been Ineffective

RX-3117 was Safe and Well Tolerated

Results Have Been Submitted for Presentation at the European Society for Medical Oncology (ESMO) Conference in October 2016

ROCKVILLE, Md., Sep. 12, 2016 - Rexahn Pharmaceuticals, Inc. (NYSE MKT:RNN), a clinical stage biopharmaceutical company developing next generation targeted therapeutics for the treatment of cancer, today announced it has initiated stage 2 of the Phase Ib/IIa clinical trial with the novel oral anti-cancer agent RX-3117 in relapsed or refractory pancreatic cancer patients. The decision to proceed was based on satisfying the predefined criteria for preliminary efficacy for stage 1 of the trial. RX-3117 was safe and well tolerated with preliminary efficacy seen in pancreatic cancer patients for whom three prior therapies had been ineffective.

"These data are very promising since there are no available treatments for pancreatic cancer patients who have failed three prior therapies. These patients would usually be offered palliative or best supportive care. Having 40% of patients showing responses beyond 2 months is certainly encouraging. I look forward to further evidence of benefit at the end of the trial," said Ely Benaim, M.D., Chief Medical Officer for Rexahn.

"The initiation of stage 2 of the Phase Ib/IIa clinical trial in refractory metastatic pancreatic cancer marks a major milestone in the RX-3117 clinical development program," commented Peter D. Suzdak, Ph.D., Chief Executive Officer. "Results from stage 1 of the Phase Ib/IIa clinical trial have been submitted for presentation at the European Society for Medical Oncology (ESMO) conference that will take place in October 2016."

The ongoing Phase Ib/IIa clinical trial is a multicenter, open-label single-agent study of RX-3117 being conducted at 10 clinical centers in the United States. Patients receive a 700 mg daily oral dose of RX-3117, five times weekly on a three weeks on, one week off dosing schedule in a 28 day cycle for up to eight treatment cycles, or until their disease progresses. The study follows a two-stage design. In stage 1 of the trial, up to 10 patients with relapsed or refractory metastatic pancreatic cancer were enrolled. Based on predefined criteria, if 20% or more of the patients had progression free survival of ≥ 4 months, or an objective clinical response rate and reduction in tumor size, then an additional 40 pancreatic cancer patients would be enrolled into stage 2.

Patients enrolled into stage 1 of the clinical trial had actively progressing disease, with 44% of them having failed ≥ 3 prior cancer therapies (including 5-FU and gemcitabine-based therapies). RX-3117 was shown to be safe and well tolerated in this patient group. The clinical study is still on-going. However since the predefined efficacy criteria have been achieved, stage 2 of the study has been initiated.

About RX-3117

RX-3117 is a novel, investigational small molecule nucleoside compound. Once intracellularly activated (phosphorylated) by UCK2, it is incorporated into the DNA or RNA of cells and inhibits both DNA and RNA synthesis, which induces apoptotic cell death of tumor cells. UCK2 is highly overexpressed in various human cancer cells. Preclinical studies have shown that RX-3117 has shown broad spectrum anti-tumor activity against over 100 different human cancer cell lines and efficacy in 17 different mouse xenograft models including pancreatic, bladder, lung, cervical and colon cancers, as well as gemcitabine resistant cancer cells. Importantly, RX-3117 still retains its full anti-tumor activity in human cancer cell lines made resistant to the anti-tumor effects of gemcitabine.

Rexahn has previously reported the completion of an exploratory Phase I clinical trial of RX-3117 in cancer patients conducted in Europe, to investigate the oral bioavailability, safety and tolerability of the compound. In this study, oral administration of a 50 mg dose of RX-3117 showed an oral bioavailability of 56% and a plasma half-life ($T_{1/2}$) of 14 hours. In addition, RX-3117 appeared to be safe and well tolerated in all subjects throughout the dose range tested.

In June 2016, final results from the Phase Ib clinical trial of RX-3117 were presented at the American Society of Clinical Oncology Annual Meeting showing encouraging evidence of the single agent activity. Patients in the study were heavily pre-treated, and had generally received four or more cancer therapies prior to enrollment. In this study, 12 patients experienced stable disease persisting for up to 276 days and three patients showed evidence of tumor burden reduction. A maximum tolerated dose of 700 mg was identified in the study and will be administered for five consecutive days, with two days off, for three treatment weeks, followed by a week of rest. At the doses tested to date, RX-3117, administered orally, appeared to be safe and well tolerated with a predictable pharmacokinetic profile for an orally-administered route of therapy.

Based on these data, Rexahn initiated a Phase Ib/IIa clinical trial of RX-3117 in patients with relapsed or refractory pancreatic cancer to further evaluate the safety and anti-cancer properties of this compound. The Phase Ib/IIa clinical trial is a multi-center study that will evaluate the safety and efficacy of RX-3117 in this target patient population. Secondary endpoints include safety and pharmacokinetic analyses. Patient enrollment has been initiated. Patients in the trial will be receiving a 700 mg daily oral dose of RX-3117, five times weekly for three weeks in a 28 day cycle for up to eight treatment cycles, or until their disease progresses. If $\geq 20\%$ of the patients have an increase in progression free survival of ≥ 4 months, or an objective clinical response rate and reduction in tumor size, then an additional 40 pancreatic cancer patients will be enrolled into stage 2. Secondary endpoints include time to disease progression, overall response rate and duration of response, as well as pharmacokinetic assessments and safety parameters.

Rexahn has received U.S. Food and Drug Administration (FDA) Orphan Drug Designation for RX-3117 for pancreatic cancer.



About Rexahn Pharmaceuticals, Inc.

Rexahn Pharmaceuticals Inc. (NYSE MKT:RNN) is a clinical stage biopharmaceutical company dedicated to developing novel, best-in-class therapeutics for the treatment of cancer. The Company's mission is to improve the lives of cancer patients by developing next generation cancer therapies that are designed to maximize efficacy while minimizing the toxicity and side effects traditionally associated with cancer treatment. Rexahn's product candidates work by targeting and neutralizing specific proteins believed to be involved in the complex biological cascade that leads to cancer cell growth. Pre-clinical studies show that certain of Rexahn's product candidates may be effective against multiple types of cancer, drug resistant cancers, and difficult-to-treat cancers, and others may augment the effectiveness of current FDA-approved cancer treatments. The Company has a broad oncology pipeline that includes three anti-cancer compounds currently in clinical development: Supinoxin™, RX-3117, and Archexin®, and a novel nanopolymer-based drug delivery platform technology that may increase the bio-availability of FDA-approved chemotherapies. For more information about the Company and its oncology programs, please visit www.rexahn.com.

Safe Harbor

To the extent any statements made in this press release deal with information that is not historical, these are forward-looking statements under the Private Securities Litigation Reform Act of 1995. Such statements include, but are not limited to, statements about Rexahn's plans, objectives, expectations and intentions with respect to cash flow requirements, future operations and products, enrollments in clinical trials, the path of clinical trials and development activities, and other statements identified by words such as "will," "potential," "could," "can," "believe," "intends," "continue," "plans," "expects," "anticipates," "estimates," "may," other words of similar meaning or the use of future dates. Forward-looking statements by their nature address matters that are, to different degrees, uncertain. Uncertainties and risks may cause Rexahn's actual results to be materially different than those expressed in or implied by Rexahn's forward-looking statements. For Rexahn, particular uncertainties and risks include, among others, understandings and beliefs regarding the role of certain biological mechanisms and processes in cancer; drug candidates being in early stages of development, including in pre-clinical development; the ability to initially develop drug candidates for orphan indications to reduce the time-to-market and take advantage of certain incentives provided by the U.S. Food and Drug Administration; and the ability to transition from our initial focus on developing drug candidates for orphan indications to candidates for more highly prevalent indications. More detailed information on these and additional factors that could affect Rexahn's actual results are described in Rexahn's filings with the Securities and Exchange Commission, including its most recent annual report on Form 10-K and subsequent quarterly reports on Form 10-Q. All forward-looking statements in this news release speak only as of the date of this news release. Rexahn undertakes no obligation to update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

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