Recro Pharma, Inc.
Form 424B3
October 26, 2015

Filed Pursuant to Rule 424(b)(3)
Registration Statement No. 333-201841

Prospectus Supplement No. 17

to Prospectus dated February 26, 2015

2,500,000 Shares

Common Stock

This Prospectus Supplement No. 17 supplements and amends our prospectus dated February 26, 2015 (the Prospectus), relating to the sale, from time to time, of up to 2,500,000 shares of our common stock by Aspire Capital Fund, LLC.

This prospectus supplement is being filed to include the information set forth in our Current Report on Form 8-K filed with the Securities and Exchange Commission on October 26, 2015. This prospectus supplement should be read in conjunction with the Prospectus and any amendments or supplements thereto, which are to be delivered with this prospectus supplement, and is qualified by reference to the Prospectus, except to the extent that the information in this prospectus supplement updates or supersedes the information contained in the Prospectus, including any amendments or supplements thereto.

Our common stock trades on the NASDAQ Capital Market under the ticker symbol REPH. On October 23, 2015, the last reported sale price per share of our common stock was $11.29 per share.

Investing in our common stock involves risk. Please read carefully the section entitled Risk Factors beginning on page 8 of the Prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved these securities or determined if the Prospectus or this prospectus supplement is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this Prospectus Supplement No. 17 is October 26, 2015.

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): October 26, 2015

Recro Pharma, Inc.

(Exact name of registrant as specified in its charter)

Pennsylvania	**001-36329**	**26-1523233**
(State or other jurisdiction of incorporation)	**(Commission File Number)**	**(I.R.S. Employer Identification No.)**
490 Lapp Road,		**19355**

Malvern, Pennsylvania
(Address of principal executive offices) (Zip Code)
Registrant s telephone number, including area code: (484) 395 2470

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))

Item 8.01 Other Events.

On October 26, 2015, Recro Pharma, Inc. issued a press release providing a clinical and regulatory update on its pipeline candidates. A copy of the press release is filed as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit No.	Document
99.1	Press release of Recro Pharma, Inc., dated October 26, 2015.

SIGNATURE

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: October 26, 2015

Recro Pharma, Inc.

By: /s/ Gerri A. Henwood
Name: Gerri A. Henwood
Title: Chief Executive Officer

EXHIBIT INDEX

Exhibit No.	Document
99.1	Press release of Recro Pharma, Inc., dated October 26, 2015.

Exhibit 99.1

Recro Pharma Provides Pipeline Update

IV Meloxicam Advancing to Phase III; Pivotal Trials Expected to Commence in First Quarter 2016

Company Shifts Focus of Dex-IN to Peri-Procedural Pain Indication

MALVERN, PA, October 26, 2015 Recro Pharma, Inc. (Nasdaq: REPH), a revenue generating specialty pharmaceutical company developing multiple non-opioid therapeutics for the treatment of acute pain, today provided a clinical and regulatory update on its pipeline candidates. In the first quarter of 2016, the Company intends to initiate a pivotal Phase III clinical development program with IV meloxicam, a long-acting, preferential COX-2 inhibitor, for the treatment of moderate to severe acute post operative pain. For Dex-IN, Recro s intranasal formulation of the selective alpha-2 agonist analgesic, dexmedetomidine, the Company plans to continue to study Dex-IN in painful conditions with a focus on the treatment of peri-procedural pain.

The decision to advance IV meloxicam into Phase III is an important milestone for Recro and we are excited about the opportunity this candidate represents as a new option for moderate to severe pain in the acute, post operative setting , said Gerri Henwood, Recro Pharma s President and Chief Executive Officer. Following the successful submission and review of additional FDA requested clinical and nonclinical information and the availability of new clinical drug supply, we expect to initiate the Phase III trials during the first quarter of 2016.

Ms. Henwood continued: Following our recent discussion with the FDA, we believe the Dex-IN product profile is better suited for peri-procedural pain rather than the post op setting evaluated in our Phase II trial. We are working to design an appropriate Phase II program to evaluate Dex-IN in this patient population. We believe this approach provides the best path forward for this candidate, and we look forward to providing future updates as we progress.

IV Meloxicam for the Treatment of Moderate to Severe Acute Pain

Recro recently met with the U.S. Food and Drug Administration (FDA) to obtain feedback for its proposed IV meloxicam Phase III clinical development program. Based on feedback from the FDA, the Company intends to initiate a Phase III program with IV meloxicam. Recro expects that the Phase III program will include two pivotal clinical trials, as well as other trials. We expect to enroll a total of approximately 1,300 patients in all these trials. One pivotal clinical trial will be designed to demonstrate pain relief over a 48-hour period in a hard tissue, post op pain model, and the other pivotal trial will

be designed to demonstrate pain relief over a 24-hour period in a soft tissue, post op pain model. Recro expects to commence the Phase III clinical program during the first quarter of 2016. Recro expects that results from these two pivotal studies, in addition to other clinical trial data and non-clinical data, to be the basis for our New Drug Application (NDA) submission to the FDA for marketing authorization.

The meloxicam clinical program is supported by clinical data from 3 Phase II studies in over 700 patients with acute pain. Results from these studies demonstrated that IV meloxicam has significant analgesic efficacy, including rapid onset of pain relief and time to peak analgesic effect, 18 to 24 hour duration of pain relief and good tolerability.

Dex-IN for the Treatment of Acute Pain

Recro recently met with the FDA to obtain feedback on the Phase II efficacy and safety data, and for its proposed Dex-IN clinical development program. Based on feedback from the FDA regarding Dex-IN s benefit-risk profile, specifically its efficacy and blood pressure effects, which was demonstrated in post op pain, and the subsequent requirements for a post op pain clinical program, the Company believes that such a program is not advisable due to time, cost and associated risks. The Company plans to reevaluate DEX-IN in peri-procedural pain as discussed with FDA. Based on the FDA s feedback, the Company intends to pursue a Phase II dose-ranging program in peri-procedural pain.

The Dex-IN clinical program is supported by clinical data from Recro s clinical studies in which Dex-IN demonstrated significant pain relief compared with placebo.

About IV/IM Meloxicam

Meloxicam is a long-acting, preferential COX-2 inhibitor that possesses anti-inflammatory, analgesic, and antipyretic activities, which are believed to be related to the inhibition of cyclooxygenase (COX) and subsequent reduction in prostaglandin biosynthesis. Meloxicam has been marketed by Boehringer Ingelheim Pharmaceuticals, Inc. since the 1990 s as an oral agent, Mobic®. IV/IM meloxicam was designed using NanoCrystal® platform, a technology that enables enhanced bioavailability of poorly water-soluble drug compounds. Recro acquired IV/IM meloxicam from Alkermes in April 2015.

About Dex-IN

Dex-IN is a proprietary intranasal formulation of dexmedetomidine, or Dex. Dex is a selective alpha-2 adrenergic agonist that has demonstrated sedative, analgesic and anxiolytic properties. The Company is evaluating multiple formulations of Dex to target a range of pain indications.

About Recro Pharma, Inc.

Recro Pharma is a revenue generating specialty pharmaceutical company developing multiple non-opioid therapeutics for the treatment of acute post-operative pain. Recro Pharma is currently developing IV/IM meloxicam, a proprietary, long-acting preferential COX-2 inhibitor, and Dex-IN, a proprietary intranasal formulation of dexmedetomidine, for the treatment of acute pain. Both compounds have successfully completed Phase II clinical trials. As Recro Pharma s product candidates are not in the opioid class of drugs, the Company believes its candidates would avoid many of the side effects associated with commonly prescribed opioid therapeutics, such as addiction, constipation and respiratory distress, while maintaining analgesic effect.

Recro Pharma also owns and operates an 87,000 square foot, DEA-licensed facility that manufactures five commercial products and receives royalties associated with the sales of these products.

Cautionary Statement Regarding Forward Looking Statements

This press release contains forward-looking statements that involve risks and uncertainties. Such forward looking statements reflect Recro Pharma s expectations about its future performance and opportunities that involve substantial risks and uncertainties. When used herein, the words anticipate, believe, estimate, upcoming, plan, target , in expect and similar expressions, as they relate to Recro Pharma or its management, are intended to identify such forward-looking statements. These forward-looking statements are based on information available to Recro Pharma as of the date of this press release and are subject to a number of risks, uncertainties, and other factors that could cause Recro Pharma s performance to differ materially from those expressed in, or implied by, these forward looking statements. Recro Pharma assumes no obligation to update any such forward-looking statements. Factors that could cause Recro Pharma s actual performance to materially differ from those expressed in the forward-looking statements set forth in this press release include, without limitation: results and timing of the clinical trials of IV/IM meloxicam and Dex-IN; the ability to obtain and maintain regulatory approval of IV/IM meloxicam and Dex-IN, and the labeling under any such approval; regulatory developments in the United States and foreign countries; the Company s ability to raise future financing for continued development; the performance of third-party suppliers and manufacturers; the Company s ability to obtain, maintain and successfully enforce adequate patent and other intellectual property protection; the successful commercialization of IV/IM meloxicam and Dex-IN; In addition, the forward looking statements in this press release should be considered together with the risks and uncertainties that may affect Recro Pharma s business and future results included in Recro Pharma s filings with the Securities and Exchange Commission at www.sec.gov. Recro Pharma assumes no obligation to update any such forward looking statements.

CONTACT:

Argot Partners

Susan Kim

(212) 600-1902

susan@argotpartners.com