

Recro Pharma, Inc.  
Form 424B3  
October 16, 2015

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

**Prospectus Supplement No. 16**

**to Prospectus dated February 26, 2015**

**2,500,000 Shares**

**Common Stock**

This Prospectus Supplement No. 16 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 16, 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 16, 2015, the last reported sale price per share of our common stock was \$11.30 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.**

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**The date of this Prospectus Supplement No. 16 is October 16, 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 12, 2015**

**Recro Pharma, Inc.**

**(Exact name of registrant as specified in its charter)**

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

**001-36329**  
**(Commission**  
  
**File Number)**

**26-1523233**  
**(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 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers**

On October 12, 2015, Charles Garner's employment as Chief Financial Officer of Recro Pharma, Inc. (the Company) terminated. Effective October 12, 2015, Donna Nichols, Vice President and Corporate Controller of the Company, assumed the duties of the principal financial officer on an interim basis until such time as the Company appoints a new Chief Financial Officer. Ms. Nichols, 59, has served as the Company's Chief Accounting Officer, Vice President and Corporate Controller since 2009. Additional information regarding Ms. Nichols and her business experience and positions with the Company can be found in the Company's Definitive Proxy Statement, filed with the Securities and Exchange Commission on April 29, 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 16, 2015

Recro Pharma, Inc.

By: /s/ Gerri A. Henwood

*Name: Gerri A. Henwood*

*Title: Chief Executive Officer*