

**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) July 17, 2013

ACELRX PHARMACEUTICALS, INC.

(Exact name of registrant as specified in charter)

DELAWARE
(State of incorporation)

001-35068
(Commission
File No.)

41-2193603
(IRS Employer
Identification No.)

351 Galveston Drive
Redwood City, CA 94063
(Address of principal executive offices and zip code)

Registrant's telephone number, including area code: (650) 216-3500

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 (see General Instruction A.2. below):

- 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 Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under Exchange Act (17 CFR 240.13e-4(c))

Item 2.02. Results of Operations and Financial Condition.

On July 17, 2013, AcetRx Pharmaceuticals, Inc. filed a preliminary prospectus supplement pursuant to Rule 424(b)(5) in which it disclosed that, although it has not finalized its full financial results for the fiscal quarter ended June 30, 2013, it expects to report that it had \$36.8 million of cash, cash equivalents and investments as of June 30, 2013.

The information in this report shall not be deemed to be “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that Section 11 and 12(a)(2) of the Securities Act of 1933, as amended. The information contained herein shall not be incorporated by reference into any filing with the U.S. Securities and Exchange Commission made by AcetRx Pharmaceuticals, Inc., whether made before or after the date hereof, regardless of any general incorporation language in such filing.

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: July 17, 2013

ACELRX PHARMACEUTICALS, INC.

By: /s/ James H. Welch

Name: James H. Welch

Title: Chief Financial Officer