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): May 5, 2011

CYTRX CORPORATION (Exact Name of Registrant as Specified in its Charter)

Delaware (State or Other Jurisdiction of Incorporation)

000-15327 (Commission File Number) 58-1642740 (I.R.S. Employer Identification No.)

11726 San Vicente Boulevard, Suite 650 Los Angeles, California (Address of Principal Executive Offices)

90049 (Zip Code)

(310) 826-5648 (Registrant's Telephone Number, Including Area Code)

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 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 2.02. Results of Operations and Financial Condition.

CytRx Corporation on May 5, 2011 issued a press release regarding its financial results for the quarter ended March 31, 2011. A copy of the press release is attached as Exhibit 99.1.

The information in this report and the exhibit attached hereto shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, nor shall they be deemed incorporated by reference in any filing with the Securities and Exchange Commission under the Securities Exchange Act of 1934 or the Securities Act of 1933, except as shall be expressly set forth by specific reference in such filing.

Item 9.01. Financial Statements and Exhibits.

The exhibit listed on the accompanying Index to Exhibits is filed herewith.

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.

Date: May 5, 2011

By:/s/ JOHN Y. CALOZ John Y. Caloz Chief Financial Officer

INDEX TO EXHIBITS

Exhibit Description

99.1 Press Release dated May 5, 2011