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): November 4, 2010 (November 4, 2010)

LUMINEX CORPORATION

(Exact name of registrant as specified in its charter)

DELAWARE (State or other jurisdiction of incorporation)

000-30109 (Commission File Number) 74-2747608 (IRS Employer Identification No.)

12212 TECHNOLOGY BLVD., AUSTIN, TEXAS (Address of principal executive offices)

78727 (Zip Code)

Registrant's telephone number, including area code: (512) 219-8020

N/A

(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:

- o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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Item 2.02. Results of Operations and Financial Condition.

On November 4, 2010, Luminex Corporation issued a press release announcing its results of operations for its fiscal quarter ended September 30, 2010. A copy of the press release is furnished herewith as Exhibit 99.1.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No. Description

99.1 Press Release issued by Luminex Corporation dated November 4, 2010.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: November 4, 2010 LUMINEX CORPORATION

By: /s/ Harriss T. Currie

Name: Harriss T. Currie

Title: Chief Financial Officer, Vice President

of Finance

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EXHIBIT INDEX

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