

Lightwave Logic, Inc.  
Form 8-K  
May 27, 2010

**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): May 27, 2010 (May 26, 2010)

**Lightwave Logic, Inc.**

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(Exact name of registrant as specified in its charter)

**Nevada**

**0-52567**

**82-049-7368**

(State or other jurisdiction of  
Incorporation or Organization)

(Commission File Number)

(I.R.S. Employer  
Identification No.)

**121 Continental Drive, Suite 110, Newark, Delaware**

(Address of principal executive offices)

**19713**

(Zip Code)

Registrant's telephone number, including area code: 302-356-2717

.....

(Former name or former address, if changed since last report)

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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))

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**Item 7.01**

**Regulation FD Disclosure**

On May 26, 2010, the registrant issued a press release reporting that its chief executive officer issued an open letter to its shareholders. The full text of the open letter to shareholders is attached as Exhibit 99.1 to this report and is incorporated herein by reference.

**Item 9.01**

**Financial Statements and Exhibits**

Exhibit No.

Description

99.1

Open Letter To Shareholders dated May 26, 2010

**SIGNATURES**

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

LIGHTWAVE LOGIC, INC.

By: /s/ James S. Marcelli

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James S. Marcelli

Dated May 27, 2010