

Lightwave Logic, Inc.  
Form 8-K  
March 31, 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): March 31, 2010

**Lightwave Logic, Inc.**

.....

(Exact name of registrant as specified in its charter)

Nevada	0-52567	82-049-7368
.....		
(State or other jurisdiction of incorporation)	(Commission File Number)	(IRS Employer Identification No.)

121 Continental Drive, Suite 110, Newark, Delaware	19713
.....	
(Address of principal executive offices)	(Zip Code)

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

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(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))

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**Item 7.01**

**Regulation FD Disclosure**

On March 31, 2010, the registrant commenced delivery of an independent research report highlighting certain aspects of the registrant to members of the investment community. The full text of the independent research report is attached as Exhibit 99.1 to this report and is incorporated herein by reference. The report is also available at the registrant's company website at [www.lightwavelogic.com](http://www.lightwavelogic.com).

**Item 9.01**

**Financial Statements and Exhibits**

Exhibit No.

Description

99.1

Independent Research Report

**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 March 31, 2010