

Lightwave Logic, Inc.  
Form 8-K  
May 10, 2011

**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 10, 2011**

**Lightwave Logic, Inc.**  
(Exact name of registrant as specified in its charter)

**Nevada**  
(State or other jurisdiction of  
Incorporation or Organization)

**0-52567**  
(Commission File Number)

**82-049-7368**  
(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)

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:

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- 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**

The registrant is hosting a technology and business update call on May 11, 2011 at 4:00 PM (EDT). There will be a company slide presentation followed by a 20-minute question-and-answer period.

**The slide presentation (no audio) can be accessed at the following URL:**

<https://lightwave.webex.com/lightwave/onstage/g.php?d=664786241&t=a>

**The telephone access numbers (audio) are:**

Call-in toll-free number (US/Canada): 1-877-669-3239

Call-in toll number (US/Canada): +1-408-600-3600

Participants need to use the **access code**: 664 786 241#

**International participants can obtain call-in numbers at the following URL:**

<https://lightwave.webex.com/lightwave/globalcallin.php?serviceType=EC&ED=99140702&tollFree=1>

**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

Name:

James S. Marcelli

Title:

President and Chief Executive Officer

Dated May 10, 2011