

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

August 6, 2010 (August 4, 2010)

Date of Report (Date of earliest event reported)

LOGIC Devices Incorporated
(Exact name of registrant as specified in its charter)

0-17187

Commission File Number

California

(State or other jurisdiction of
incorporation or organization)

94-2893789

(I.R.S. Employer
Identification Number)

1375 Geneva Drive, Sunnyvale, California 94089

(Address of principal executive offices)
(Zip Code)

(408) 542-5400

(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 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers

On August 4, 2010, Mr. Steven Settles submitted his notice of resignation from the LOGIC Devices Incorporated Board of Directors and as the Audit Committee Chairman. Mr. Settles did not express any disagreement with our operations, policies or practices.

LOGIC Devices Incorporated would like to thank Mr. Settles for his years of service.

Item 9.01 Financial Statements and Exhibits

(d) Exhibits

99.1 – Mr. Steven Settles’s notice of resignation, dated August 4, 2010.

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.

LOGIC Devices Incorporated
(Registrant)

Date: August 6, 2010

By: /s/ Kimiko Milheim
Kimiko Milheim
Chief Financial Officer and Corporate Secretary

Exhibit 99.1

By Email:

Howard,

While I have enjoyed my time working with the Logic Devices Board. I'm afraid I must submit my resignation. I must dedicate more time to other business and personal issues. Good luck.

Steve Settles