

MERCURY COMPUTER SYSTEMS INC  
Form 8-K  
May 17, 2010

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

WASHINGTON, DC 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 17, 2010**

**Mercury Computer Systems, Inc.**

(Exact Name of Registrant as Specified in Charter)

Massachusetts  
(State or Other Jurisdiction  
  
of Incorporation)

000-23599  
(Commission File Number)

04-2741391  
(IRS Employer  
  
Identification No.)

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**201 Riverneck Road, Chelmsford, Massachusetts 01824**

**(Address of Principal Executive Offices) (Zip Code)**

**Registrant's telephone number, including area code: (978) 256-1300**

**Not Applicable**

**(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 (*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 7.01 Regulation FD Disclosure.**

The management of Mercury Computer Systems, Inc. ( Mercury ) will present an overview of Mercury s business on May 17-18, 2010, at meetings with William Blair & Company in San Francisco, California. Attached as Exhibit 99.1 to this Current Report on Form 8-K (the Report ) is a copy of the slide presentation to be made by Mercury at the meetings.

This information is being furnished pursuant to Item 7.01 of this Report and shall not be deemed to be filed for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that section and will not be incorporated by reference into any registration statement filed by Mercury under the Securities Act of 1933, as amended, unless specifically identified as being incorporated therein by reference. This Report will not be deemed an admission as to the materiality of any information in this Report that is being disclosed pursuant to Regulation FD.

Please refer to page 1 of Exhibit 99.1 for a discussion of certain forward-looking statements included therein and the risks and uncertainties related thereto, as well as the use of non-GAAP financial measures included therein.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

**Exhibit**

No.	Description
99.1	Presentation materials dated May 17-18, 2010 (filed herewith).

**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 thereunto duly authorized.

Dated: May 17, 2010

MERCURY COMPUTER SYSTEMS, INC.

By:

/s/ ROBERT E. HULT  
**Robert E. Hult**  
**Senior Vice President, Chief Financial Officer,**  
**and Treasurer**

**Exhibit Index**

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