MERCURY COMPUTER SYSTEMS INC Form 8-K February 04, 2009

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): February 4, 2009

Mercury Computer Systems, Inc.

(Exact Name of Registrant as Specified in Charter)

Massachusetts (State or Other Jurisdiction 000-23599 (Commission File Number) 04-2741391 (IRS Employer

of Incorporation)

Identification No.)

199 Riverneck Road, Chelmsford, Massachusetts
(Address of Principal Executive Offices)

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 8.01 Other Events.

On February 4, 2009, Mercury Computer Systems, Inc. (the Company) repurchased \$119,688,000 (face value) aggregate principal amount of its 2.00% Convertible Senior Notes due 2024 (the Notes) from the holder of such Notes. The Company repurchased the Notes for aggregate consideration equal to the principal amount of the Notes, plus accrued interest. The Company paid the consideration for the Notes from a combination of cash on hand and the proceeds from the sale of certain U.S. Treasury securities held by the Company. The Company originally sold \$125,000,000 principal amount of the Convertible Senior Notes in April 2004.

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: February 4, 2009 MERCURY COMPUTER SYSTEMS, INC.

By: /s/ Alex A. Van Adzin Alex A. Van Adzin

Vice President, General Counsel,

and Corporation Secretary