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

June 29, 2004

Date of Report (Date of earliest event reported)

Mercury Computer Systems, Inc.

(Exact name of registrant as specified in its charter)

Massachusetts000-2359904-2741391(State or other(Commission(IRS Employer

jurisdiction of incorporation) File Number) Identification No.)

199 Riverneck Road, Chelmsford, Massachusetts (Address of principal executive offices)

01824 (Zip Code)

(978) 256-1300

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Registrant s telephone number, including area code

N/A

(Former name or former address, if changed since last report)

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Item 5. Other Events.

On June 29, 2004, George W. Chamillard was elected to the Board of Directors of Mercury Computer Systems, Inc. Mr. Chamillard is chairman of the Board of Directors of Teradyne, Inc. With the addition of Mr. Chamillard, Mercury Computer Systems board now has eight members.

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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.

MERCURY COMPUTER SYSTEMS, INC.

Date: June 29, 2004

By: /s/ Joseph Hartnett

Name: Joseph M. Hartnett

Title: Vice President, Controller and

Chief Accounting Officer