
**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)

Massachusetts
(State or other
jurisdiction of incorporation)

000-23599
(Commission
File Number)

04-2741391
(IRS Employer
Identification No.)

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

01824
(Zip Code)

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

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

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.

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