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

Date of report (Date of earliest event reported): October 17, 2007

TERADYNE, INC.

(Exact Name of Registrant as Specified in Charter)

Massachusetts (State or Other Jurisdiction 001-06462 (Commission File Number) 04-2272148 (IRS Employer

of Incorporation)

Identification No.)

600 Riverpark Drive, North Reading, MA
(Address of Principal Executive Offices)

Registrant s telephone number, including area code: (978) 370-2700

(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 2.02 Results of Operations and Financial Condition.

On October 17, 2007, Teradyne, Inc. (Teradyne) issued a press release regarding its financial results for the third quarter ended September 30, 2007. Teradyne s press release is furnished as Exhibit 99.1 to this Current Report on Form 8-K.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

The exhibit listed below and in the accompanying Exhibit Index is furnished as part of this Current Report on Form 8-K.

Exhibit No. Description

99.1 Press Release dated October 17, 2007.

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.

TERADYNE, INC.

Dated: October 17, 2007 By: /s/ Gregory R. Beecher

Name: Gregory R. Beecher

Title: V.P., Chief Financial Officer and Treasurer

Exhibit No. Description

99.1 Press Release dated October 17, 2007.