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): April 26, 2012

KEY TECHNOLOGY, INC.

(Exact name of registrant as specified in its charter)

OREGON
(State or other jurisdiction of incorporation)

0-21820 (Commission File Number)

93-0822509 (IRS Employer Identification No.)

150 Avery Street Walla Walla, Washington 99362 (Address of principal executive offices) (Zip Code)

(509) 529-2161 (Registrant's telephone number, including area code)

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

(a) On April 26, 2012, Key Technology, Inc. issued a press release announcing its financial results for its second quarter of fiscal 2012 ended March 31, 2012. The full text of the press release is attached as Exhibit 99.1 to this Current Report on Form 8-K.

The information in this Current Report is being furnished and shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended.

ITEM 9.01. FINANCIAL STATEMENTS AND EXHIBITS

(d) Exhibits

The following exhibit is furnished with this Current Report on Form 8-K:

99.1

Press Release of Key Technology, Inc., dated April 26, 2012

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 hereunto duly authorized.

KEY TECHNOLOGY, INC.

/s/ John J. Ehren John J. Ehren Executive Vice President and Chief Operating Officer/Chief Financial Officer

Dated: April 26, 2012

EXHIBIT INDEX

Exhibit No. Description

99.1 Press release of Key Technology, Inc., March 26, 2012