#### **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): December 13, 2005

#### 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 5.02. DEPARTURE OF DIRECTORS OR PRINCIPAL OFFICERS; ELECTION OF DIRECTORS; APPOINTMENT OF PRINCIPAL OFFICERS

Key Technology, Inc. (the "Company") announced on December 13, 2005 the resignation of Kirk W. Morton, President and Chief Executive Officer. Mr. Morton will resign all positions with the Company, including his positions as President, Chief Executive Officer and as a director, effective December 31, 2005 to become chief executive officer of a privately-held company.

The full text of the press release disclosing the resignation is attached hereto as Exhibit 99.1.

#### Item 9.01. FINANCIAL STATEMENTS AND EXHIBITS

(c) Exhibits

99.1

Press release of Key Technology, Inc. dated December 13, 2005

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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.

KEY TECHNOLOGY, INC.

/s/ RONALD W. BURGESS Ronald W. Burgess Senior Vice President and Chief Financial Officer

Dated: December 13, 2005

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### EXHIBIT INDEX

Exhibit No.	Description
99.1	Press release of Key Technology, Inc. dated December 13, 2005