

APPLIED SIGNAL TECHNOLOGY INC  
Form S-8 POS  
February 02, 2011

As filed with the Securities and Exchange Commission on February 1, 2011

No. 333-143787

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

**Post-Effective Amendment to  
Form S-8  
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933**

**APPLIED SIGNAL TECHNOLOGY, INC.**  
*(Exact name of registrant as specified in its charter)*

**California**  
(State or other jurisdiction of  
incorporation or organization)

**77-0015491**  
(I.R.S. Employer  
Identification No.)

**460 West California Ave.**  
**Sunnyvale, CA**  
(Address of Principal Executive Offices)

**94086**  
(Zip Code)

**Applied Signal Technology, Inc. 1993 Employee Stock Purchase Plan**  
(Full title of the plan)

**William B. Van Vleet III**  
**Applied Signal Technology, Inc.**  
**460 West California Ave.**  
**Sunnyvale, CA 94086**  
(Name and address of agent for service)

**(408) 749-1888**

(Telephone number, including area code, of agent for service)

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated  
filer

Accelerated filer

Non-accelerated filer   
(Do not check if a smaller reporting  
company)

Smaller reporting  
company

**EXPLANATORY NOTE**

Applied Signal Technology, Inc. (the Company ) filed a Registration Statement on Form S-8 (No 333-143787) (the Registration Statement ) with the Securities and Exchange Commission on June 15, 2007. On January 31, 2011, pursuant to that certain Agreement and Plan of Merger, dated as of December 18, 2010 by and among Raytheon Company, a Delaware corporation ( Parent ), RN Acquisition Company, a California corporation, and the Company, the Company became a wholly owned subsidiary of Parent. As a result of the transactions contemplated thereby, the Company has terminated all offerings of the Company s securities pursuant to the Registration Statement.

In accordance with an undertaking made by the Company in the Registration Statement to remove from registration, by means of a post-effective amendment, any securities that remain unsold at the termination of the offering, the Company hereby removes from registration all securities registered under the Registration Statement.

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**SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, as amended, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the city of Sunnyvale, State of California, on February 1, 2011.

APPLIED SIGNAL TECHNOLOGY, INC.

By: /s/ James E. Doyle  
Name: James E. Doyle  
Title: Vice President

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement has been signed by the following persons in the capacities and on the date indicated.

| Signature  | Title   | Date             |
|--|---|------------------|
| /s/ William B. Van Vleet III<br>William B. Van Vleet III | President<br><i>(Principal Executive Officer)</i>   | February 1, 2011 |
| /s/ James E. Doyle<br>James E. Doyle                     | Vice President<br><i>(Principal Financial Officer and<br/>Principal Accounting Officer)</i> | February 1, 2011 |
| /s/ Kathryn G. Simpson<br>Kathryn G. Simpson             | Director  | February 1, 2011 |