

APPLIED SIGNAL TECHNOLOGY INC  
Form 15-12G  
February 10, 2011

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

**FORM 15**

**CERTIFICATION AND NOTICE OF TERMINATION OF REGISTRATION UNDER  
SECTION 12(g) OF THE SECURITIES EXCHANGE ACT OF 1934 OR SUSPENSION  
OF DUTY TO FILE REPORTS UNDER SECTIONS 13 AND 15(d) OF THE  
SECURITIES EXCHANGE ACT OF 1934.**

000-21236

(Commission File Number)

**RAYTHEON APPLIED SIGNAL TECHNOLOGY, INC.**

(Exact name of registrant as specified in its charter)

460 West California Ave., Sunnyvale, CA 94086

(408) 749-1888

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Common Stock, without par value

(Title of each class of securities covered by this form)

None

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(Titles of all other classes of securities for which a duty to file reports under section 13(a) or 15(d) remains)

Please place an X in the box(es) to designate the appropriate rule provision(s) relied upon to terminate or suspend the duty to file reports:

Rule 12g-4(a)(1)	x
Rule 12g-4(a)(2)	..
Rule 12h-3(b)(1)(i)	x
Rule 12h-3(b)(1)(ii)	..
Rule 15d-6	..

Approximate number of holders of record as of the certification or notice date: 1

Pursuant to the requirements of the Securities Exchange Act of 1934, Raytheon Applied Signal Technology, Inc. has caused this certification/notice to be signed on its behalf by the undersigned duly authorized person.

**RAYTHEON APPLIED SIGNAL TECHNOLOGY,  
INC.**

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

Dated: February 10, 2011