

VARIAN MEDICAL SYSTEMS INC  
Form 8-K  
November 17, 2009

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) November 13, 2009

VARIAN MEDICAL SYSTEMS, INC.  
(Exact Name of Registrant as Specified in its Charter)

Delaware  
(State or Other Jurisdiction  
of Incorporation)

1-7598  
(Commission File  
Number)

94-2359345  
(IRS Employer  
Identification No.)

3100 Hansen Way, Palo Alto, CA  
(Address of Principal Executive Offices)

94304-1030  
(Zip Code)

Registrant's telephone number,  
including area code (650) 493-4000

Not Applicable  
(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 Other Events

8.01.

On November 13, 2009, the Company's Board of Directors authorized the Company to repurchase up to 5,000,000 shares of its common stock from time to time during the period beginning on January 1, 2010 and ending on December 31, 2010. Stock repurchases will be made in the open market, in privately negotiated transactions, or in Rule 10b5-1 share repurchase plans, and may be made from time to time or in one or more larger blocks. The program will be conducted in compliance with the Securities and Exchange Commission's Rule 10b-18 and applicable legal requirements and the timing of the repurchases and the number of shares to be repurchased at any given time will depend on market conditions, Securities and Exchange Commission regulations and other factors. The program does not obligate the Company to acquire any particular amount of common stock and the program may be modified or suspended at any time at the Company's discretion.

This new authorization is in addition to the 8,000,000 share repurchase authorization approved by the Company's Board of Directors in November 2008, which expires December 31, 2009 and pursuant to which the Company has repurchased shares of its common stock from time to time during the calendar year.

---

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.

Varian Medical Systems, Inc.

By:	/s/ JOHN W. KUO
Name:	John W. Kuo
Title:	Corporate Vice President, General Counsel and Secretary

Dated: November 16, 2009

---