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 1, 2004

Natus Medical Incorporated

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction 000-33001 (Commission File Number) 77-0154833 (IRS Employer

Identification No.)

of incorporation)

1501 Industrial Road, San Carlos, California 94070

(Address of principal executive offices) (Zip Code)

Registrant s telephone number, including area code: (650) 802-0400

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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 5.02 Departure of Directors or Principal Officers; Election of Directors; Appointment of Principal Officers.

(b) On December 1, 2004, William New, Jr., M.D., Ph.D., a director of the registrant, tendered his resignation from the Board of Directors. His resignation was not attributable to any disagreement with the registrant relating to its operations, policies or practices.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

NATUS MEDICAL INCORPORATED

Dated: December 3, 2004

By: /s/ Steven J. Murphy

Steven J. Murphy Vice President, Finance

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