| TRANSGENOMIC INC | |
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| Form 8-K | |
| March 05, 2007 | |
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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): March 1, 2007

TRANSGENOMIC, INC.

_____ (Exact name of registrant as specified in its charter)

Delaware _____ (State of Incorporation) 000-30975 _____

_____ (Commission (IRS Employer File Number) Identification Number)

911789357

68164 _____ (Zip Code)

(Address of principal executive offices)

12325 Emmet Street, Omaha, Nebraska

(402) 452-5400

_____ (Registrant's telephone number, including area code)

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:

- [] 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 DIRECTOR AND ELECTION OF DIRECTOR.

Roland J. Santoni, the Registrant's member of the Board of Directors,

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has submitted his resignation from such position, effective March 1, 2007. In addition, Mr. Santoni is resigning from his positions of Chairman of the Compensation Committee and a member of the Audit Committee.

On March 1, 2007, the Registrant's Board of Directors appointed Rodney S. Markin to fill the vacancy created by Mr. Santoni's resignation. Dr. Markin shall serve as a Class III Director. Dr. Markin has not been appointed to any committees of the Board of Directors at this time. There are no family relationships between Dr. Markin and any other director or executive officer of the Registrant and he was not selected by the Board of Directors to serve as a Director pursuant to any arrangement or understanding with any person. Dr. Markin has not engaged in any transaction with the Registrant that would be reportable as a related party transaction under the rules of the SEC.

ITEM 9.01 FINANCIAL STATEMENTS AND EXHIBITS.

99.1 Press Release, dated March 5, 2007, announcing the resignation of Roland J. Santoni as the Registrant's Board Member and the appointment of Rodney S. Markin to the Registrant's Board of Directors.

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.

Dated: March 5, 2007

TRANSGENOMIC, INC.

By: /s/ Debra A. Schneider

Debra A. Schneider Chief Financial Officer