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 16, 2007

TRANSGENOMIC, INC.

(Exact name of registrant as specified in its charter)

Delaware (State of Incorporation)

000-30975 (Commission File Number) 911789357 (IRS Employer

Identification Number)

12325 Emmet Street, Omaha, Nebraska (Address of principal executive offices)

68164 (Zip Code)

(402) 452-5400

(Registrant s telephone number, including area code)

Not applicable

(Former name or former address, if changed since last report)

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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))

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Item 5.02 Departure of Director.

Parag Saxena, a member of the Board of Directors of Transgenomic, Inc., has submitted his resignation from the Board, effective March 16, 2007. In addition, Mr. Saxena resigned from his positions as a member of the Board s Compensation Committee and Audit Committee.

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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 19, 2007 TRANSGENOMIC, INC.

By: /s/ Debra A. Schneider Debra A. Schneider Chief Financial Officer