

KNOTT DAVID M  
Form SC 13G/A  
February 14, 2006

**SECURITIES AND EXCHANGE COMMISSION**

**WASHINGTON, D.C. 20549**

**SCHEDULE 13G**

**INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT  
TO RULES 13d-1(b), (c) AND (d) AND AMENDMENTS THERETO FILED  
PURSUANT TO RULE 13d-2(b)**

**(Amendment No. 1)<sup>1</sup>**

Transgenomic, Inc.

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(Name of Issuer)

Common Stock \$0.01 Par Value

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(Title of Class of Securities)

89365K206

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(CUSIP Number)

December 31, 2005

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(Date of Event Which Requires Filing of this Statement)

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Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

<sup>1</sup> The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 (the Act) or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, *see the Notes*).

1. NAME OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

**David M. Knott**

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a)

(b)

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

**United States of America**

5. SOLE VOTING POWER:

NUMBER OF	4,532,656 (See Item 4)
<hr/>	
SHARES	6. SHARED VOTING POWER:

BENEFICIALLY

OWNED BY	294,551 (See Item 4)
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EACH	7. SOLE DISPOSITIVE POWER:

REPORTING

PERSON	4,830,285 (See Item 4)
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WITH	8. SHARED DISPOSITIVE POWER:

50,000

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

4,880,285 (See Item 4)

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES\* ..

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.9% (See Item 4)

12. TYPE OF REPORTING PERSON\*

IN

1. NAME OF REPORTING PERSONS

I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

**Dorset Management Corporation**

11-2873658

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

(a) ..

(b) x

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

**United States of America**

5. SOLE VOTING POWER:

NUMBER OF 4,532,656 (See Item 4)

SHARES 6. SHARED VOTING POWER:

BENEFICIALLY

OWNED BY 294,551 (See Item 4)

EACH 7. SOLE DISPOSITIVE POWER:

REPORTING

PERSON 4,830,285 (See Item 4)

WITH 8. SHARED DISPOSITIVE POWER:

50,000

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:

4,880,285 (See Item 4)

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES\*

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.9% (See Item 4)

12. TYPE OF REPORTING PERSON\*

CO

**Item 1 (a) Name of Issuer:**

Transgenomic, Inc.

**Item 1 (b) Address of Issuer's Principal Executive offices:**

12325 Emmett Street

Omaha, Nebraska 68164

**Item 2 (a) Name of Person(s) Filing:**

David M. Knott; Dorset Management Corporation

**Item 2 (b) Address of Principal Business Office or, if none, residence:**

485 Underhill Boulevard, Suite 205

Syosset, New York 11791

**Item 2 (c) Citizenship or Place of Organization**

David M. Knott - United States of America;  
Dorset Management Corporation - New York

**Item 2 (d) Title of Class of Securities:**

Common Stock, \$0.01 Par Value

**Item 2 (e) CUSIP Number:**

89365K206

**Item 3 If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:**

- (a) .. Broker or dealer registered under Section 15 of the Exchange Act;
- (b) .. Bank as defined in Section 3(a)(6) of the Exchange Act;
- (c) .. Insurance company as defined in Section 3(a)(19) of the Exchange Act;
- (d) .. Investment company registered under Section 8 of the Investment Company Act;
- (e) .. An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
- (f) .. An employee benefit plan, or endowment fund in accordance with rule 13d-1(b)(1)(ii)(F);
- (g) .. A parent holding company, or control person, in accordance with Rule 13d-1(b)(1)(ii)(G);
- (h) .. A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;
- (i) .. A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
- .. Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

**Item 4 Ownership:**

David M. Knott; Dorset Management Corporation  
See Rows 5 through 9 and 11 on pages 2 and 3.

The percentages of class reported on Row 11 on pages 2 and 3 are based on 49,172,079 shares of Common Stock of the Issuer outstanding as of November 2, 2005 as reported to the Reporting Persons by the Issuer, plus 123,734 shares of Common Stock issuable pursuant to warrants held by the Reporting Persons.

The Common Stock reported in this Schedule 13G does not include 1,460,424 shares of Common Stock issuable upon the exercise of warrants held by the Reporting Persons. Such warrants held by the Reporting Persons are subject to a conversion cap that precludes the holder thereof from exercising such warrants to the extent that the holder would, after such exercise, beneficially own (as determined in accordance with Section 13(d) of the Securities Exchange Act of 1934, as amended) in excess of 9.9% of the Common Stock outstanding.

**Item 5 Ownership of Five Percent or Less of a Class**

N/A

**Item 6 Ownership of More than Five Percent on Behalf of Another Person**

Persons, other than the Reporting Persons hereunder, have the right to receive or the power to direct the receipt of dividends, or the proceeds from the sale, of securities reported herein.

**Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company**

N/A

**Item 8 Identification and Classification of Members of the Group**

N/A

**Item 9 Notice of Dissolution of Group**

N/A

**Item 10 Certification**

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

**Signature**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

February 14, 2006

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Date

/s/ David M. Knott

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David M. Knott

DORSET MANAGEMENT CORPORATION

By: /s/ David M. Knott

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David M. Knott, President