

TRANSGENOMIC INC  
Form SC 13D/A  
October 30, 2006

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

**SCHEDULE 13D**

Under the Securities Exchange Act of 1934  
(Amendment No. **8**)\*

**Transgenomic, Inc.**  
(Name of Issuer)

**Common Stock**  
(Title of Class of Securities)

**89365K206**  
(CUSIP Number)

**John P. Flakne, CFO, Kopp Investment Advisors, 7701 France Ave. So., Suite 500  
Edina, MN 55435 (952)841-0400**

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

**10/20/06**  
(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition which is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(b)(3) or (4), check the following box [ ].

Check the following box if a fee is being paid with the statement [ ]. (A fee is not required only if the reporting person: (1) has a previous statement on file reporting beneficial ownership of more than five percent of the class of securities described in Item 1; and (2) has filed no amendment subsequent thereto reporting beneficial ownership of five percent or less of such class. (See Rule 13d-7.))

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 disclosures provided in a prior cover page.

The information required on 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 ("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).

**SCHEDULE 13D**

CUSIP No. **89365K206** Page 1 of 4

1) Name of Reporting Person

S.S. or I.R.S. Identification No. of Person

**Kopp Investment Advisors, LLC**  
**I.D. No. 76-0744828**

2) Check the appropriate box if a Member of a Group

(a)

(b)

3) SEC Use Only

4) Source of Funds

**00: Client Funds; WC**

5) Check Box if Disclosure of Legal Proceedings is Required  
Pursuant to Items 2(d) or 2(e) [ ]

6) Citizenship or Place of Organization

**Minnesota**

Number of shares Beneficially Owned by Each Reporting Person With:

7) Sole Voting Power: **5,708,105**

8) Shared Voting Power: **0**

9) Sole Dispositive Power: **1,320,000**

10) Shared Dispositive Power: **4,961,905**

11) Aggregate Amount Beneficially Owned by Each Reporting Person

**6,281,905**

12) Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares\* [ ]

13) Percent of Class Represented by Amount in Row (11)

**12.8%**

14) Type of Reporting Person

**IA**

**SCHEDULE 13D**

CUSIP No. **89365K206** Page 2 of 5

1) Name of Reporting Person

S.S. or I.R.S. Identification No. of Person

**Kopp Holding Company, LLC**  
**I.D. No. 52-2421382**

2) Check the appropriate box if a Member of a Group

(a)

(b)

3) SEC Use Only

4) Source of Funds

**Not applicable - indirect beneficial ownership**

5) Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e) [ ]

6) Citizenship or Place of Organization

**Minnesota**

Number of shares Beneficially Owned by Each Reporting Person With:

7) Sole Voting Power: **0**

8) Shared Voting Power: **0**

9) Sole Dispositive Power: **0**

10) Shared Dispositive Power: **0**

11) Aggregate Amount Beneficially Owned by Each Reporting Person

**6,281,905**

12) Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares\* [ ]

13) Percent of Class Represented by Amount in Row (11)

**12.8%**

14) Type of Reporting Person

**HC**

**SCHEDULE 13D**

1) Name of Reporting Person

S.S. or I.R.S. Identification No. of Person

**Kopp Holding Company**  
**I.D. No. 41-1875362**

2) Check the appropriate box if a Member of a Group

(a)

(b)

3) SEC Use Only

4) Source of Funds

**WC; Indirect beneficial ownership**

5) Check Box if Disclosure of Legal Proceedings is Required  
Pursuant to Items 2(d) or 2(e) [ ]

6) Citizenship or Place of Organization

**Minnesota**

Number of shares Beneficially Owned by Each Reporting Person With:

7) Sole Voting Power: **845,000**

8) Shared Voting Power: **0**

9) Sole Dispositive Power: **845,000**

10) Shared Dispositive Power: **0**

11) Aggregate Amount Beneficially Owned by Each Reporting Person

**7,126,905**

12) Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares\* [ ]

13) Percent of Class Represented by Amount in Row (11)

**14.5%**

14) Type of Reporting Person

**HC**

**SCHEDULE 13D**

CUSIP No. **901103101** Page 4 of 5

1) Name of Reporting Person

S.S. or I.R.S. Identification No. of Person

**Kopp Emerging Growth Fund**  
**I.D. No. 39-1906915**

2) Check the appropriate box if a Member of a Group

(a)

(b)

3) SEC Use Only

4) Source of Funds

**WC**

5) Check Box if Disclosure of Legal Proceedings is Required  
Pursuant to Items 2(d) or 2(e) [ ]

6) Citizenship or Place of Organization

**Minnesota**

Number of shares Beneficially Owned by Each Reporting Person With:

7) Sole Voting Power: **0**

8) Shared Voting Power: **0**

9) Sole Dispositive Power: **0**

10) Shared Dispositive Power: **0**

11) Aggregate Amount Beneficially Owned by Each Reporting Person

**1,320,000**

12) Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares\* [ ]

13) Percent of Class Represented by Amount in Row (11)

**2.7%**

14) Type of Reporting Person

**IV**

**SCHEDULE 13D**

CUSIP No. **89365K206** Page 5 of 5

1) Name of Reporting Person  
S.S. or I.R.S. Identification No. of Person

**LeRoy C. Kopp**

2) Check the appropriate box if a Member of a Group

(a)

(b)

3) SEC Use Only

4) Source of Funds

**PF, OO**

5) Check Box if Disclosure of Legal Proceedings is Required  
Pursuant to Items 2(d) or 2(e) [ ]

6) Citizenship or Place of Organization

**United States**

Number of shares Beneficially Owned by Each Reporting Person With:

7) Sole Voting Power: **3,024,000**

8) Shared Voting Power: **0**

9) Sole Dispositive Power: **3,024,000**

10) Shared Dispositive Power: **0**

11) Aggregate Amount Beneficially Owned by Each Reporting Person

**9,305,905**

12) Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares\* [ ]

13) Percent of Class Represented by Amount in Row (11)

**18.9%**

14) Type of Reporting Person

**IN**

## Item 1. Security and Issuer

This statement relates to the common stock ("Common Stock") of Transgenomic Inc., a Delaware corporation ("Company"), whose principal executive offices are located at 12325 Emmet Street, Omaha, NE 68164. The approximate aggregate percentage of shares of Common Stock reported beneficially owned by each person herein is based on 49,189,672 shares outstanding, which is the total number of shares of Common Stock outstanding as of August 14, 2006, based on Form 10-Q filed with the Securities and Exchange Commission on August 14, 2006. Unless otherwise indicated, the holdings reported herein are as of the close of business on October 20, 2006.

## Item 2. Identity and Background

(a) This statement is filed by Kopp Investment Advisors, LLC ("KIA") with respect to shares owned by clients and held in discretionary accounts managed by KIA; Kopp Holding Company, LLC ("KHCLLC") solely as the parent entity of KIA and indirect beneficial owner of the shares; beneficially owned by KIA; Kopp Emerging Growth Fund ("KEGF") with respect to shares owned directly by KEGF; Kopp Holding Company (KHC) on its own behalf and as a controlling person of KHCLLC; and by LeRoy C. Kopp individually with respect to shares of Common Stock that may be deemed beneficially owned directly by him and indirectly by him by virtue of his ownership of all of the stock of KHC. The foregoing persons are sometimes referred to as "Reporting Persons". Certain information concerning the directors and executive officers of the corporate Reporting Persons is set forth on Schedule A attached hereto and incorporated herein by reference. Any disclosures with respect to persons other than the Reporting Persons are made on information and belief after making inquiry to the appropriate party.

(b) The business address of each of the Reporting Persons and directors and executive officers is 7701 France Avenue South, Suite 500, Edina, MN 55435.

(c) The principal business of KIA is that of an investment advisor managing discretionary accounts owned by numerous third-party clients, including KEGF, a registered investment company incorporated under Minnesota law. KHCLLC is a holding company engaged, through subsidiaries, in the investment industry. The principal occupation of Mr. Kopp is serving as the chief executive of KHCLLC, KHC and KIA.

(d) None of the persons referred to in paragraph (a) above has, during the last five years, been convicted in a criminal proceeding (excluding traffic violations and/or similar misdemeanors).

(e) None of the persons referred to in paragraph (a) above has, during the last five years, been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree, or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

(f) KIA and KHCLLC are Minnesota limited liability companies. KHC is a Minnesota corporation. KEGF is a series of Kopp Funds, Inc., a Minnesota corporation. Mr. Kopp and all other directors and executive officers of the Reporting Persons are citizens of the United States.

## Item 3. Source and Amount of Funds or Other Consideration

The net investment cost (including commissions, if any) of the shares of Common Stock directly or indirectly beneficially owned by Mr. Kopp, which includes shares beneficially owned by the other Reporting Persons, at October 20, 2006, was \$16,013,782.45. The shares beneficially owned by KIA were purchased with the investment capital of the owners of the discretionary accounts. The shares beneficially owned by KEGF were purchased with the working capital of the mutual fund. The shares beneficially owned directly by Mr. Kopp and KHC were purchased with his investment capital or the funds of a 501(c)(3) corporation. See Item 5 below.

#### Item 4. Purpose of Transaction

The Reporting Persons acquired the shares of Common Stock for investment purposes, and the Reporting Persons intend to evaluate the performance of such securities as an investment in the ordinary course of business. The Reporting Persons pursue an investment objective of long term capital appreciation. In pursuing this investment objective, the Reporting Persons analyze the management, operations and markets of companies in which they invest, including the Company, on a continual basis through analysis of research and discussions with industry and market observers and with representatives of such companies.

Each Reporting Person that owns shares of Common Stock assesses the Company's business, financial condition, and results of operations as well as economic conditions and securities markets in general and those for the Company's shares in particular. Depending on such assessments, one or more of such Reporting Persons may acquire additional shares or may sell or otherwise dispose of all or some of the shares of Common Stock. Such actions will depend on a variety of factors, including current and anticipated trading prices for the Common Stock, alternative investment opportunities, and general economic, financial market, and industry conditions.

Except as described in this Item 4, none of the Reporting Persons nor any other person named in Schedule A has any plans or proposals that relate to, or would result in, any matter required to be disclosed in response to paragraphs (a) through (j), inclusive, of Item 4 of Schedule 13D. The shares of Common Stock were not acquired for the purpose, nor with the effect, of changing or influencing the control of the Company. Neither any of the Reporting Persons nor any client or shareholder thereof is a member of a "group" for any purpose.

#### Item 5. Interest in Securities of the Issuer

(a) Generally by virtue of limited powers of attorney and/or investment advisory agreements, KIA is the beneficial owner of 6,281,905 shares, or approximately 13%, of the Common Stock. KIA manages and votes shares owned by KEGF. By virtue of the relationships described in Item 2 of this statement, KHC, KHCLLC and Mr. Kopp may have indirect beneficial ownership of the shares beneficially owned by KIA.

Mr. Kopp's direct beneficial ownership may comprise Common Stock held by KHC; held in the Kopp Family Foundation ("KFF"), for which he serves as a director; held in the LeRoy C. Kopp Individual Retirement Account ("IRA"); held directly by him or his wife's IRA. KHC is the direct owner of 845,000 shares. The KFF is the direct owner of 330,000 shares. The IRA's own 816,000 shares of the Common Stock, or approximately 2% of the Common Stock. Mr. Kopp owns directly 1,033,000 shares. In the aggregate, including the shares beneficially owned by KIA, under Section 13 of the Securities Act of 1934, Mr. Kopp may be deemed beneficially to own a total of 9,305,905 shares, or 19%, of the Common Stock.

(b) KIA has power to vote 5,708,105 shares of the Common Stock. Pursuant to the limited powers of attorney granted to KIA by its clients, which generally are terminable immediately upon notice, KIA in effect shares with the majority of its thousands of clients the power to dispose of the Common Stock owned individually by them. KIA has sole power to dispose of 1,320,000 shares. In effect Mr. Kopp has sole power to dispose of and to vote the Common Stock beneficially owned directly by him and KHC.

(c) The identity of the Reporting Person, type of transaction, date, number of shares, and price per share (excluding commission) for all transactions in the Common Stock by the Reporting Persons within the past 60 days are set forth on Schedule B attached hereto and incorporated by reference herein. Substantially all trades by the Reporting Persons are done in the over-the-counter market.

(d) With the exception of the thousands of clients of KIA and the employees of KHC, no person other than each respective record owner of shares of Common Stock is known to have the right to receive or the power to direct the receipt of dividends from or the proceeds of the sale of such shares of Common Stock.

(e) Not applicable.

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer

Except as otherwise expressly disclosed herein, there are no material contracts, arrangements, understandings, or relationships (legal or otherwise) among the persons named in Item 2 hereof or between such persons and any other person with respect to the Common Stock. The filing of this Schedule shall NOT be construed as an admission that a Reporting Person or any other person is a beneficial owner of any shares of Common Stock for any purpose, including for purposes of Sections 13, 14 or 16 of the Securities Exchange Act of 1934, as amended from time to time. KIA does not act as an agent of any client to enter into any agreement to act as a group with others for the purpose of acquiring, holding or disposing of the securities of an issuer or to gain corporate control or to influence corporate affairs of an issuer. KIA and affiliates and associates are not affiliated with the issuer.

Item 7. Material to Be Filed as Exhibits

Exhibit 1 - A written agreement relating to the filing of this statement pursuant to Rule 13d-1(f).

Signatures

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

Dated: **10/30/06**

KOPP INVESTMENT ADVISORS, LLC

BY: /s/ John P. Flakne

\_\_\_\_\_  
TITLE: Chief Financial Officer

KOPP HOLDING COMPANY, LLC

BY: /s/ John P. Flakne

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TITLE: Chief Financial Officer

KOPP HOLDING COMPANY

BY: /s/ John P. Flakne

\_\_\_\_\_  
TITLE: Chief Financial Officer

KOPP FUNDS, INC.

BY: /s/ LeRoy C. Kopp

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TITLE: President

LEROY C. KOPP

/s/ LeRoy C. Kopp

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Exhibit 1

JOINT FILING AGREEMENT

In accordance with Rule 13d-1(f) under the Securities Exchange Act of 1934, as amended, the undersigned hereby agree to the joint filing with all other Reporting Persons (as such term is defined in the Schedule 13D) on behalf of each of them of a statement on Schedule 13D (including amendments thereto) with respect to the Common Stock (as defined) and to the attachment of this agreement to the Schedule 13D as Exhibit 1 thereto. IN WITNESS WHEREOF, the undersigned hereby execute this Agreement this 30th day of October 2006.

KOPP INVESTMENT ADVISORS, LLC

BY: /s/ LeRoy C. Kopp

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TITLE: Chief Executive Officer

KOPP HOLDING COMPANY, LLC

BY: /s/ LeRoy C. Kopp

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TITLE: Chief Executive Officer

KOPP HOLDING COMPANY

BY: /s/ John P. Flakne

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TITLE: Chief Financial Officer

KOPP FUNDS, INC.

BY: /s/ LeRoy C. Kopp

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TITLE: President

LEROY C. KOPP

/s/ LeRoy C. Kopp

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Schedule A

List of Directors, Executive Officers, and Control Persons

LeRoy C. Kopp

, individually, and as Sole Director and President of  
Kopp Holding Company and as Sole Governor and Chief Executive  
Officer of Kopp Holding Company LLC, Kopp Investment Advisors LLC and Kopp Funds

John P. Flakne

as Chief Financial Officer of KIA, KHC, KHCLLC and KEGF

Kopp Investment Advisors - Schedule B

Daily Trade Report

August 22, 2006 thru October 20, 2006

Trade Reporting

Date Person Activity Quantity Symbol Price

10/20/2006	KIA	BUY	40000	tbio	0.5
10/20/2006	KIA	SELL	2000000	tbio	0.41
10/18/2006	KIA	BUY	50000	tbio	0.5
10/18/2006	KIA	BUY	1700	tbio	0.48
10/18/2006	KIA	BUY	8300	tbio	0.49
10/17/2006	KIA	BUY	50000	tbio	0.51
10/16/2006	KIA	SELL	1250	tbio	0.46
10/16/2006	KIA	SELL	5000	tbio	0.46
10/16/2006	KIA	BUY	40000	tbio	0.48
10/16/2006	KIA	BUY	30000	tbio	0.51
10/13/2006	KIA	SELL	3500	tbio	0.47
10/13/2006	KIA	SELL	5000	tbio	0.47
10/11/2006	KIA	SELL	8500	tbio	0.48
10/10/2006	KIA	SELL	100000	tbio	0.5
10/6/2006	KIA	SELL	5000	tbio	0.52
10/5/2006	KIA	SELL	4000	tbio	0.52
10/5/2006	KIA	BUY	30000	tbio	0.56
10/4/2006	KIA	SELL	5000	tbio	0.55
10/3/2006	KIA	SELL	5000	tbio	0.54
10/3/2006	KIA	SELL	7000	tbio	0.51
10/3/2006	KIA	BUY	20000	tbio	0.6
10/2/2006	KIA	BUY	30000	tbio	0.6
10/2/2006	KIA	SELL	5000	tbio	0.52
9/29/2006	KIA	BUY	25000	tbio	0.58
9/25/2006	KIA	BUY	20000	tbio	0.54
9/25/2006	KIA	BUY	30000	tbio	0.53
9/22/2006	KIA	SELL	10000	tbio	0.46
9/14/2006	KIA	SELL	20000	tbio	0.49
9/14/2006	KIA	SELL	20000	tbio	0.47
9/13/2006	KIA	SELL	8000	tbio	0.53
9/12/2006	KIA	SELL	6920	tbio	0.54
9/8/2006	KIA	SELL	8080	tbio	0.55
9/6/2006	KIA	SELL	2000	tbio	0.65
8/30/2006	KIA	SELL	10000	tbio	0.7

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8/30/2006 KIA SELL 5000 tbio 0.69  
8/29/2006 KIA BUY 4000 tbio 0.72  
8/28/2006 KIA SELL 5000 tbio 0.66  
8/28/2006 KIA BUY 20000 tbio 0.75  
8/28/2006 KIA BUY 10000 tbio 0.77  
8/28/2006 KIA BUY 10000 tbio 0.74  
8/25/2006 KIA BUY 15000 tbio 0.73  
8/25/2006 KIA BUY 30000 tbio 0.76  
8/25/2006 KIA BUY 35000 tbio 0.75  
8/25/2006 KIA SELL 5000 tbio 0.68  
8/25/2006 KIA BUY 10000 tbio 0.76  
8/24/2006 KIA SELL 2000 tbio 0.68  
8/24/2006 KIA BUY 30000 tbio 0.72  
8/24/2006 KIA BUY 30000 tbio 0.71  
8/23/2006 KIA BUY 25000 tbio 0.72  
8/23/2006 KIA BUY 20000 tbio 0.73  
8/22/2006 CTRL BUY 37000 tbio 0.73  
8/22/2006 KIA SELL 2000 tbio 0.67