SKLAR JEFFREY L

Check this box

if no longer

subject to

Section 16.

Form 4 June 11, 2010

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 4 or Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * SKLAR JEFFREY L

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

OMB APPROVAL

3235-0287

January 31,

2005

0.5

OMB

Number:

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response...

Estimated average

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Symbol

TRANSGENOMIC INC [TBIO.OB]

06/07/2010

(Check all applicable)

(First) (Middle) (Last)

3. Date of Earliest Transaction (Month/Day/Year)

_X__ Director 10% Owner Officer (give title Other (specify

YALE UNIVERSITY SCHOOL OF MEDICINE, 310 CEDAR STREET

(Street)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year)

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

below)

NEW HAVEN, CT 06520

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of 2. Transaction Date 2A. Deemed 4. Securities 5. Amount of 7. Nature of 3. 6. Ownership Security (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Securities Form: Direct Indirect (Instr. 3) Code Disposed of (D) Beneficially (D) or Indirect Beneficial (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned (I) Ownership Following (Instr. 4) (Instr. 4) Reported

(A) Transaction(s) or (Instr. 3 and 4)

Code V Amount (D) Price

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of **SEC 1474** information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number	6. Date Exercisable and	7. Title and Amount of 8
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	onof Derivative	Expiration Date	Underlying Securities I
Security	or Exercise		any	Code	Securities	(Month/Day/Year)	(Instr. 3 and 4) S

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr. 8	3)	Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)					
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Purchase Option	\$ 0.58	06/07/2010		A		5,000		07/01/2013	06/06/2020	Common Stock (1)	5,000

Reporting Owners

Reporting Owner Name / Address	Relationships					
topy and a many state of	Director	10% Owner	Officer	Other		
SKLAR JEFFREY L YALE UNIVERSITY SCHOOL OF MEDICINE 310 CEDAR STREET NEW HAVEN, CT 06520	X					

Signatures

/s/ Craig J. Tuttle, POA for Jeffrey L.
Sklar

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Common Stock, par value \$.01 per share of Transgenomic, Inc.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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