TRANSGENOMIC INC Form SC 13D/A January 12, 2016

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

#### SCHEDULE 13D

(Amendment No. 4)\*
Under the Securities Exchange Act of 1934

#### TRANSGENOMIC, INC.

(Name of Issuer)

Common Stock (Title of Class of Securities)

89365K206 (CUSIP Number)

Third Security, LLC
1881 Grove Avenue
Radford, Virginia 24141
Attention: Marcus E. Smith, Esq.
(540) 633-7900
(Name, Address and Telephone Number of Person
Authorized to Receive Notices and Communications)

#### Copy to:

John Owen Gwathmey, Esq. David I. Meyers, Esq. Troutman Sanders LLP Troutman Sanders Building 1001 Haxall Point Richmond, Virginia 23219 (804) 697-1239

January 6, 2016

(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 .

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties to whom copies are to be sent.

\* 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).

#### CUSIP No. 89365K206 Page 2 of 12

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
	RANDAL J. KIRK		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP	(a) (b)	
3	SEC USE ONLY		
4	SOURCE OF FUNDS (SEE INSTRUCTIONS) PF		
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)		
6	CITIZENSHIP OR PLACE OF ORGANIZATION		
	United States		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	SOLE VOTING POWER 7 8,464,848		
	SHARED VOTING POWER  8 0		
	SOLE DISPOSITIVE POWER 9 8,464,848		
	SHARED DISPOSITIVE POWER 10 0	₹	
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH		

8,464,848

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES

12 CERTAIN SHARES (SEE

INSTRUCTIONS)

PERCENT OF CLASS

REPRESENTED BY AMOUNT IN

13 ROW (11)

35.6%

TYPE OF REPORTING PERSON

14 IN

### CUSIP No. 89365K206 Page 3 of 12

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)			
	THIRD SECURITY, LLC I.R.S. IDENTIFICATION NO.: 54-1923091			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)			
3	SEC USE ONLY			
4	SOURCE OF FUNDS (SEE INSTRUCTIONS)			
	WC			
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)			
6	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Virginia			
NUMBER OF	SOLE VOTING POWER 7 8,464,848			
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	SHARED VOTING POWER  8 0			
	SOLE DISPOSITIVE POWER 9 8,464,848			
	SHARED DISPOSITIVE POWER  10 0			

11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 8,464,848
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 35.6%
14	TYPE OF REPORTING PERSON  OO – limited liability company

### CUSIP No. 89365K206 Page 4 of 12

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)  THIRD SECURITY SENIOR STAFF 2008 LLC I.R.S. IDENTIFICATION NO.: 26-1868899	
2	IF A MEMBER OF A GROUP	(a) (b)
3	SEC USE ONLY	
4	SOURCE OF FUNDS (SEE INSTRUCTIONS) WC	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)	
6	CITIZENSHIP OR PLACE OF ORGANIZATION Virginia	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	SOLE VOTING POWER 7 3,385,940	
	SHARED VOTING POWER  8 0	
	SOLE DISPOSITIVE POWER  9  3,385,940	
	SHARED DISPOSITIVE POWER 10 0	

11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
12	3,385,940  CHECK BOX IF THE AGGREGATE  AMOUNT IN ROW (11) EXCLUDES  CERTAIN SHARES (SEE  INSTRUCTIONS)
12	PERCENT OF CLASS REPRESENTED BY AMOUNT IN
13	ROW (11)  14.3%  TYPE OF REPORTING PERSON
14	OO – limited liability company

### CUSIP No. 89365K206 Page 5 of 12

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
	THIRD SECURITY STAFF 2010 LLC I.R.S. IDENTIFICATION NO.: 27-3853493		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b)		
3	SEC USE ONLY		
4	SOURCE OF FUNDS (SEE INSTRUCTIONS) WC		
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(D) OR 2(E)		
6	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Virginia		
NUMBER OF	SOLE VOTING POWER 7 2,416,180		
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	SHARED VOTING POWER  8 0		
	SOLE DISPOSITIVE POWER 9 2,416,180		
	SHARED DISPOSITIVE POWER 10 0		

11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,416,180
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 10.2%
14	TYPE OF REPORTING PERSON  OO – limited liability company

### CUSIP No. 89365K206 Page 6 of 12

1	I.R. ABO ON THI 201 I.R.	MES OF REPORTING PERSONS S. IDENTIFICATION NOS. OF OVE PERSONS (ENTITIES LY)  IRD SECURITY INCENTIVE 0 LLC S. IDENTIFICATION NO.: 3853442	
2	_	ECK THE APPROPRIATE BOX A MEMBER OF A GROUP	(a) (b)
3	SEC	C USE ONLY	
4	INS	SOURCE OF FUNDS (SEE INSTRUCTIONS) WC	
5	LEO REO	ECK BOX IF DISCLOSURE OF GAL PROCEEDINGS IS QUIRED PURSUANT TO ITEM O) OR 2(E)	
6	OR	TIZENSHIP OR PLACE OF GANIZATION ginia	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 1,692,969	
	8	SHARED VOTING POWER 0	
	9	SOLE DISPOSITIVE POWER 1,692,969	
	10	SHARED DISPOSITIVE POWER 0	

11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,692,969
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 7.1%
14	TYPE OF REPORTING PERSON  OO – limited liability company

#### CUSIP No. 89365K206 Page 7 of 12

```
NAMES OF
 REPORTING
 PERSONS
1 I.R.S.
 IDENTIFICATION
 NOS. OF ABOVE
 PERSONS
 (ENTITIES ONLY)
 THIRD SECURITY
 STAFF 2014 LLC
 I.R.S.
 IDENTIFICATION
 NO.: 46-4988087
 CHECK THE
 APPROPRIATE
 BOX IF A MEMBER (a)
 OF A GROUP
                  (b)
2
 SEC USE ONLY
3
4
```