FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, [D.C. 20549
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STATEMENT (OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average b	urden							
hours per response:	0.5							

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* RECTOR DAVID				2. Issuer Name and Ticker or Trading Symbol SENESCO TECHNOLOGIES INC [SNT]							_	able)	j Pers	10% Ow	ner		
(Last) (First) (Middle) 303 GEORGE STREET					3. Date of Earliest Transaction (Month/Day/Year) 02/19/2010								Officer (below)	give title		Other (s below)	pecify
SUITE 4	20				4. If Amendment, Date of Original Filed (Month/Day/Year)							6 Inc	dividual or Jo	oint/Group	Filina	(Check Ann	licable
(Street) NEW BRUNSV	WICK N	J	08901		T. II Americanical, Date of Original Fried (Month) Day feat)					Line)	dividual or Joint/Group Filing (Check Applicable) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)														
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date			2. Transac Date (Month/Da	Execution Date,		3. Transaction Code (Instr.) 8) 4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			5. Amoun Securities Beneficia Owned Fo	es Form ally (D) of Following (I) (II		: Direct I Indirect I str. 4)	7. Nature of Indirect Beneficial Ownership				
							Code	v	Amount	(A) or (D)	Price	Reported Transacti (Instr. 3 a	tion(s)			(Instr. 4)	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	se (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported	e S Illy	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Cod	e V	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares		Transaction (Instr. 4)	uil(S)		
Common Stock Option	\$0.29	02/19/2010		A		50,834 ⁽¹⁾		02/19/20	10	02/19/2020	Common Stock	50,834	\$0	441,58	30	D	

Explanation of Responses:

1. Such options were issued to Mr. Rector in lieu of cash compensation under the Companys independent directors compensation plan for the quarter ended December 31, 2009.

02/23/2010 **David Rector**

** Signature of Reporting Person Date

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

- * 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.