FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

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

## MENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL 3235-0287 Estimated average burden hours per response: 0.5

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

1. Name and Address of Reporting Person*  RECTOR DAVID					2. Issuer Name and Ticker or Trading Symbol SENESCO TECHNOLOGIES INC [ SNT ]								Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director 10% Owner					
(Last) (First) (Middle) 303 GEORGE STREET				3. Date of Earliest Transaction (Month/Day/Year) 02/14/2011								Officer (give title below)			Other (s <sub>l</sub> below)	pecify		
SUITE 420					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. In	6. Individual or Joint/Group Filing (Check Applicable					
(Street) NEW NJ 08901												Line)  X Form filed by One Reporting Person  Form filed by More than One Reporting  Person						
(City)	(S	tate)	(Zip)															
		Ta	ble I - Non-D	erivati	ve Se	curities	Acq	juired, D	isp	osed of	, or Ber	eficially	y Owned					
Date				Transaction te onth/Day/		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Of (D) Code (Instr. 5)		s Acquired (A) or of (D) (Instr. 3, 4 and		5. Amoun Securities Beneficia Owned Fo	Folly (D)	Form: (D) or	orm: Direct ) or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
							Code V Amount		(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		<u> </u>		(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		3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (		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. Number of derivative Securities Beneficially Owned Following Reported		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable		Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)				
Common Stock Option	\$0.29	02/14/2011		A		18,104 <sup>(1)</sup>		02/14/2011	. 0	02/14/2021	Common Stock	18,104	\$0	664,0	19	D		

## **Explanation of Responses:**

1. Such options were issued to Mr. Rector in lieu of cash compensation under the Company's independent director compensation plan, with such options vesting on the date of grant.

**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.