FORM 4

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

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL								
OMB Number: 3235-0287								
Estimated average burden								
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1. Name and Address of Reporting Person* RECTOR DAVID			2. Issuer Name and Ticker or Trading Symbol SENESCO TECHNOLOGIES INC [SNT]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>ILLETON DA</u>				X	Director	10% Owner			
(Last) 303 GEORGE S SUITE 420	(First) TREET	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 11/17/2010		Officer (give title below)	Other (specify below)			
,			4. If Amendment, Date of Original Filed (Month/Day/Year)		idual or Joint/Group Filin	g (Check Applicable			
(Street) NEW BRUNSWICK	NJ	08901		Line) X	Form filed by One Rep Form filed by More tha Person	0			
(City)	(State)	(Zip)							
		Table I - Non-Deri	vative Securities Acquired, Disposed of, or Benefic	cially C	wned				

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

	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) e (Instr.			Disposed Of (D) (Instr. 3, 4 and 5)		ties Form: Direct Indirect cially (D) or Indirect Beneficial I Following red ction(s) (I) (Instr. 4) (Instr. 4)		Form: Direct (D) or Indirect	Beneficial Ownership
			Code	v	Amount (A) or (D) Price		Price	Reported Transaction(s) (Instr. 3 and 4)		(1150.4)		

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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		Derivative		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	\$0.26	11/17/2010		Α		43,269 ⁽¹⁾		11/17/2010	11/17/2020	Common Stock	43,269	\$0	495,915	D	
Common Stock Option	\$0.26	11/17/2010		A		150,000 ⁽²⁾		11/17/2010	11/17/2020	Common Stock	150,000	\$0	645,915	D	

Explanation of Responses:

1. Such options were granted 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.

2. One-half of such options vest on the date of grant and one-half of such options will vest on 11/17/2011.

11/19/2010 Date

** Signature of Reporting Person

David Rector

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.