SEC F	Form 4
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FORM	4
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UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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

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 Number: 3235-0287 Estimated average burden hours per response: 0.5

			or Section So(n) of the investment Company Act of 1940						
1. Name and Address of Reporting Ferson		Person*	2. Issuer Name and Ticker or Trading Symbol <u>SENESCO TECHNOLOGIES INC</u> [SNT]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
				X	Director	10% Owner			
(Last) 303 GEORGE S ⁻ SUITE 420	(First) TREET	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/20/2010		Officer (give title below)	Other (specify below)			
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group Filir	ng (Check Applicable			
(Street) NEW BRUNSWICK	NJ	08901	_	X	Form filed by One Re Form filed by More the Person	, ,			
(City)	(State)	(Zip)							
		Table I - Non-Dei	ivative Securities Acquired, Disposed of, or Benef	icially	Owned				
					r	2			

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)	ction	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 an 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount (A) or (D) Price		Transaction(s) (Instr. 3 and 4)		(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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerc Expiration Da (Month/Day/\	ate	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	\$0.61	05/20/2010		A		11,066 ⁽¹⁾		05/20/2010	05/20/2020	Common Stock	11,066	\$0	452,646	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 for the quarter ended March 31, 2010.

David Rector

** Signature of Reporting Person

05/24/2010

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.