FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

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			of Section So(n) of the investment Company Act of 1940							
	s of Reporting Person	*	2. Issuer Name and Ticker or Trading Symbol SENESCO TECHNOLOGIES INC [SNT]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
THOMPSON	JOHN PHD		[Х	Director	10% Owner				
(Last) (First) (Middle)		(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	Х	Officer (give title below)	Other (specify below)				
C/O SENESCO	FECHNOLOGIES	INC	12/16/2003		Executive VP of R&D					
(Street)		08901	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indivi Line)	dividual or Joint/Group Filing (Check Applicable					
BRUNSWICK	NJ			Х	Form filed by One Reporting	ng Person				
					Form filed by More than O Person	ne Reporting				
(City)	(State)	(Zip)								
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned										

1. Title of Security (Instr. 3)	Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)			Disposed Of (D) (Instr. 3, 4 and			5. Amount of Securities Beneficially Owned Following	Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
			Code	v	Amount	(A) or (D)	Price	 Reported 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)

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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 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 ⁽¹⁾	\$3.15	12/16/2003		Α		20,000 ⁽¹⁾		12/16/2003	12/16/2013	Common Stock	20,000	\$0	160,000 ⁽²⁾	D	

Explanation of Responses:

1. Such options were granted to Dr. Thompson pursuant to the Company's 1998 Stock Incentive Plan, as amended, with one-third of such options vesting on the date of grant, one-third of such options vesting on December 16, 2004, and one-third of such options vesting on December 16, 2005.

2. Includes multiple option grants with different exercise prices and vesting dates.

/s/ John E. Thompson

12/17/2003

** 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.