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

1. Name and Address of Reporting Person* <u>STALDER RUEDI</u>				2. Issuer Name and Ticker or Trading Symbol SENESCO TECHNOLOGIES INC [ SNT ]						] (Ch	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  X Director 10% Owner					
(Last) (First) (Middle) 303 GEORGE STREET SUITE 420					3. Date of Earliest Transaction (Month/Day/Year) 02/19/2010							Officer below)	(give title		Other (s <sub>l</sub> below)	pecify
(Street) NEW BRUNSWICK NJ 08901				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)						Line	6. Individual or Joint/Group Filing (Check Applicable 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	sposed o	f, or Be	neficiall	y Owned				
Date				2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 3) 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4) 5)				4 and Securities Beneficiall Owned Fo		Form: (D) or	m: Direct I or Indirect I nstr. 4)	7. Nature of ndirect Beneficial Ownership		
								Code V	Amount	(A) o (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		1		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	cise (Month/Day/Year) ve	Execution Date, if any	4. Transa Code ( 8)		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 Transaction(s)		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		(Instr. 4)	юп(s)		
Common Stock Option	\$0.29	02/19/2010		A		56,666 <sup>(1)</sup>		02/19/2010	02/19/2020	Common Stock	56,666	\$0	889,86	69	D	

## **Explanation of Responses:**

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

02/23/2010

\*\* 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.