FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C. 20549
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STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

	OIVID APPRO	VAL
Ì	OMB Number:	3235-0287
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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

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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>rtz or c</u>		_												X	Director			10% Ov	vner		
(Last) (First) (Middle) 303 GEORGE STREET					3. Date of Earliest Transaction (Month/Day/Year) 02/19/2010								\exists		Officer (g	give title		Other (s below)	specify		
SUITE 420																					
JOI1L 42	_0					If Ame	ndment D	ate of	Original F	=iled (Month/Day	/Vear)	6	Indiv	idual or Io	int/Group F	ilina (Check Ann	licable		
(Change)					7	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street)															X Form filed by One Reporting Person						
NEW BRUNSWICK NJ 08901													Form filed by More than One Reporting								
DRUNSV	VICK														Person	,					
(City)	(S	tate)	(Zip)																		
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, , , , , , , , , , , , , , , , , , ,			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4		ed (A) or str. 3, 4 an	d 5)	5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	ount (A) or P		:	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
Common Stock			02/19	9/20	10			P	34,2		- ` '	\$0	(1)	61,551		D					
			Table II I	Davissa	.4:	. Caa		١	iinad D	.:		ar Pan	eficially	. 0.							
			Table II - I						,		onvertib		-	y Ov	vneu						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Dat if any (Month/Day/Yo	Co	Transaction Code (Instr.		n Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amou of Securities Underlying Derivative Securit (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported	i i illy	Ownershi Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)			
										\Box			Amoun	t		Transaction (Instr. 4)	on(s)				
				Co	ode	v	(A)	(D)	Date Exercisal		Expiration Date	Title	or Numbe of Shar								
Common Stock Warrant	\$1.01	02/19/2010			P		19,803		02/19/20	10	06/30/2012	Common Stock	19,80)3	\$0 ⁽¹⁾	27,845	5	D			
Common Stock Warrant	\$1.01	02/19/2010			P		33,006		02/19/20	10	12/20/2012	Common Stock	33,00)6	\$0 ⁽¹⁾	60,85	1	D			
Common Stock Warrant	\$1.01	02/19/2010			P		22,004		02/19/20	10	06/30/2013	Common Stock	22,00)4	\$0 ⁽¹⁾	82,85	5	D			
Common Stock Warrant	\$0.83	02/19/2010			P		33,006		02/19/20	10	12/20/2012	Common Stock	33,00	06	\$0 ⁽¹⁾	115,86	1	D			
Common Stock Warrant	\$0.83	02/19/2010			P		22,004		02/19/20	10	06/30/2013	Common Stock	22,00)4	\$0 ⁽¹⁾	137,86	55	D			
Convertible Debenture Due	\$0.22 ⁽²⁾	02/19/2010			P		\$132,022		02/19/20	10	12/31/2010	Common Stock	587,7	53	\$0 ⁽¹⁾	587,75	i3	D			

Explanation of Responses:

- 1. Mr. Rector entered into agreements to purchase an aggregate of 34,218 shares of common stock, 129,823 common stock warrants and \$132,022 of convertible debentures. The total purchase price was \$23,500, which was not allocated among the various components
- 2. The conversion rate used is the rate that the convertible debentures may convert at as of February 19, 2010. However, the conversion rate may change as the convertible debentures convert at a floating conversion rate equal to the lower of \$0.83, subject to adjustment, or 80% of the lowest daily VWAP for the five day period immediately preceding the conversion date.

David Rector

02/23/2010

** Signature of Reporting Person

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.