Spectra Energy Corp. Form 4 May 14, 2010

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

response...

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See Instruction

Check this box

if no longer

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person ** HENDRIX DENNIS R			Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer			
			Spectra Energy Corp. [SE]	(Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction				
			(Month/Day/Year)	X Director 10% Owner			
5400 WESTHEIMER COURT			05/12/2010	Officer (give titleOther (specify below)			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line)			
				X Form filed by One Reporting Person			
HOUSTON, TX 77056-5310				Form filed by More than One Reporting Person			

(State)

(Zip)

(City)

(City)	(State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned									
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)	(A) or	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
Common Stock	05/12/2010		P	5,000 A $$22.6395$	5,000	I	Held by Trustee			
Common Stock					166,565	D				
Common Stock					80,000	I	By Grat (2) (3) (4) (5) (6) (7) (8)			

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	e and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	onNumber	Expiration D	ate	Amour	nt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underl	ying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securit	ties	(Instr. 5)	Bene
	Derivative				Securities			(Instr. :	3 and 4)		Owne
	Security				Acquired						Follo
					(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
									Amount		
						Date	Expiration		or Name la sur		
					Exercisable	Date		Number			
				C 1 W	(A) (D)				of		
				Code V	(A) (D)			,	Shares		

Other

Date

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer

HENDRIX DENNIS R 5400 WESTHEIMER COURT X HOUSTON, TX 77056-5310

Signatures

/s/By Beverly Fite as Attorney-in-Fact for Dennis R. Hendrix

**Signature of Reporting Person

05/14/2010

Explanation of Responses:

- * 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).
- (1) Held in a retirement account by broker.
- (2) 20,000 shares held in GRAT with reporting person's wife as Trustee and 20,000 shares held in GRAT with reporting person as Trustee.
- (3) 30,000 shares held in GRAT with reporting person's wife as Trustee and 30,000 shares held in GRAT with reporting person as Trustee.
- (4) 36,000 shares held in GRAT with reporting person's wife as Trustee and 36,000 shares held in GRAT with reporting person as Trustee.
- (5) 38,000 shares held in GRAT with reporting person's wife as Trustee and 38,000 shares held in GRAT with reporting person as Trustee.
- (6) 40,000 shares held in GRAT with reporting person's wife as Trustee and 40,000 shares held in GRAT with reporting person as Trustee.
- (7) The Reporting Person is Trustee.
- (8) The Reporting Person's wife is Trustee of the Trust.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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