CARTER JOHN L

Form 4

December 31, 2009

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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January 31, 2005

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obligations

may continue.

See Instruction

Check this box

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 *

CARTER JOHN L

2. Issuer Name and Ticker or Trading

Symbol

5. Relationship of Reporting Person(s) to Issuer

below)

(Check all applicable)

UNISOURCE ENERGY CORP [UNS]

(Last) (First) (Middle)

(Street)

3. Date of Earliest Transaction

X_ Director 10% Owner Officer (give title Other (specify

(Month/Day/Year) 12/29/2009

1 S. CHURCH AVENUE, SUITE

201

Security

(Instr. 3)

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

TUCSON, AZ 85701

(State) (Zip) (City) 1.Title of 2. Transaction Date 2A. Deemed

3. 4. Securities (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Code

(Instr. 8)

Disposed of (D) (Instr. 3, 4 and 5) Owned

(A)

or

5. Amount of 6. Ownership Securities Form: Direct Beneficially (D) or Indirect Beneficial (I) Following (Instr. 4)

Reported Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price

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

(Month/Day/Year)

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

3. Transaction Date 3A. Deemed 1. Title of (Month/Day/Year) Execution Date, if TransactionDerivative Conversion

5. Number of

6. Date Exercisable and **Expiration Date**

7. Title and Amount of 8. Pr **Underlying Securities**

7. Nature of

Ownership (Instr. 4)

Indirect

1

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Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)	Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		(Month/Day/Year)		(Instr. 3 and 4)		Secu (Inst
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Phantom Stock Units (1)	\$ 0 (3)	12/29/2009		A	102.69		(1)(2)	(2)	Common Stock	102.69	\$

Reporting Owners

Reporting Owner Name / Address	Relationships						
·r····	Director	10% Owner	Officer	Other			
CARTER JOHN L 1 S. CHURCH AVENUE SUITE 201 TUCSON, AZ 85701	X						

Signatures

Amy J. Welander, Attorney in Fact 12/31/2009

**Signature of Reporting Person Date

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).
- Credited as fully-vested dividend equivalents under the UniSource Energy Corporation Management and Directors Deferred Compensation Plan (the "DCP") with respect to dividends declared by the Issuer on its Common Stock.
- Payable at the time or times elected by the reporting person under the DCP and subject to earlier payment in accordance with the DCP.
- (3) Converts to common stock on a 1-for-1 basis.

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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