

CARTER JOHN L  
Form 4  
March 24, 2010

**FORM 4**

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

OMB APPROVAL

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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).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
CARTER JOHN L

2. Issuer Name and Ticker or Trading Symbol  
UNISOURCE ENERGY CORP  
[UNS]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction  
(Month/Day/Year)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

1 S. CHURCH AVENUE, SUITE 201

01/03/2002

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)

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

TUCSON, AZ 85701

(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. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------|
|                                 |                                      |                                                    | Code                           | V                                                                 | Amount                                                                                        | (A) or (D)                                               | Price                             |
| Common Stock                    | 05/10/2002                           |                                                    | A                              |                                                                   | 516                                                                                           | A                                                        | \$ 0                              |
|                                 |                                      |                                                    |                                |                                                                   | 23,817                                                                                        | (1)                                                      | D                                 |
| Common Stock                    | 01/02/2003                           |                                                    | A                              |                                                                   | 573                                                                                           | A                                                        | \$ 0                              |
|                                 |                                      |                                                    |                                |                                                                   | 23,817                                                                                        | (1)                                                      | D                                 |
| Common Stock                    | 01/03/2005                           |                                                    | A                              |                                                                   | 408                                                                                           | A                                                        | \$ 0                              |
|                                 |                                      |                                                    |                                |                                                                   | 23,817                                                                                        | (1)                                                      | D                                 |

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

**Persons who respond to the collection of information contained in this form are not required to respond unless the form**

SEC 1474  
(9-02)

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)

| 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. Transaction Code (Instr. 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 Underlying Securities (Instr. 3 and 4) | 8. Pr Deriv Secur (Instr. 3 and 4) |                            |
|--------------------------------------------|--------------------------------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|------------------------------------|----------------------------|
|                                            |                                                        |                                      |                                                    | Code                           | V (A) (D)                                                                               | Date Exercisable                                         | Expiration Date                                               | Title                              | Amount or Number of Shares |
| Stock Option (right to buy)                | \$ 18.74                                               | 01/03/2002                           |                                                    | A                              | 2,000                                                                                   | (2)                                                      | (2)                                                           | Common Stock                       | 2,000                      |
| Stock Option (right to buy)                | \$ 17.44                                               | 01/02/2003                           |                                                    | A                              | 2,358                                                                                   | (2)                                                      | (2)                                                           | Common Stock                       | 2,358                      |
| Restricted Stock Units                     | (3)                                                    | 01/03/2005                           |                                                    | A                              | 408                                                                                     | (3)                                                      | (3)                                                           | Common Stock                       | 408                        |
| Restricted Stock Units                     | (4)                                                    | 05/06/2005                           |                                                    | A                              | 660                                                                                     | (4)                                                      | (4)                                                           | Common Stock                       | 660                        |
| Stock Units                                | (5)                                                    | 07/01/2005                           |                                                    | A                              | 114                                                                                     | (5)                                                      | (5)                                                           | Common Stock                       | 114                        |

## Reporting Owners

| Reporting Owner Name / Address                                       | Relationships |           |         |       |
|----------------------------------------------------------------------|---------------|-----------|---------|-------|
|                                                                      | Director      | 10% Owner | Officer | Other |
| CARTER JOHN L<br>1 S. CHURCH AVENUE<br>SUITE 201<br>TUCSON, AZ 85701 | X             |           |         |       |

## Signatures

Amy J. Welander, Attorney  
in Fact

03/24/2010

\_\_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).

(1) The reporting person included the transaction being reported in its holdings listed in this column, but mistakenly did not previously report the underlying transaction. As such, current holdings are shown. The shares or units, as applicable, being reported in this filing were reflected in the reporting person's holdings as disclosed in prior proxy statements filed by UniSource Energy Corporation.

(2) The options vest as follows: 1/3 on the first anniversary of the date of the grant, 1/3 on the second anniversary of the date of the grant, and 1/3 on the third anniversary of the date of the grant. They expire on the date that is 10 years from the date of grant.

(3) The restricted stock units vest as follows: 1/3 on the first anniversary of the date of grant, 1/3 on the second anniversary of the date of the grant, and 1/3 on the third anniversary of the date of the grant and are payable upon the reporting person's termination of service with UniSource Energy Corporation.

(4) The restricted stock units were awarded as equity compensation to the reporting person and vest on the first anniversary of the date of grant and are payable upon the reporting person's termination of service with UniSource Energy Corporation.

(5) The stock units were awarded to the reporting person for their service as chairperson of a committee, or lead director, as applicable, of the UniSource Energy Corporation Board of Directors. The stock units vest on the date of grant and are payable upon the reporting person's termination of service with UniSource Energy Corporation.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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