

BAUMANN BARBARA M  
Form 4  
January 19, 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 \*  
BAUMANN BARBARA M

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)  
1 S. CHURCH AVENUE, UE201  
  
(Street)

3. Date of Earliest Transaction  
(Month/Day/Year)  
01/15/2010

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

TUCSON, AZ 85701  
  
(City) (State) (Zip)

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

**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)
				(A) or (D)	Price		
				Code	V	Amount	

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 displays a currently valid OMB control number.**

SEC 1474  
(9-02)

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

1. Title of Derivative Security	2. Conversion or Exercise	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any	4. Transaction Code	5. Number of Derivative Securities	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Underlying Securities
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<small>(Instr. 3)</small>	<small>Price of Derivative Security</small>	<small>(Month/Day/Year)</small>	<small>(Instr. 8)</small>	<small>Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)</small>	<small>(Instr.)</small>		<small>V</small>	<small>(A)</small>	<small>(D)</small>	<small>Date Exercisable</small>	<small>Expiration Date</small>	<small>Title</small>	<small>Amount or Number of Shares</small>	
Phantom Stock <u>(1)</u>	\$ 0 <u>(3)</u>	01/15/2010		A				76.38		<u>(1)(2)</u>	<u>(2)</u>	Common Stock	76.38	\$ 32

## Reporting Owners

<small>Reporting Owner Name / Address</small>	<small>Relationships</small>			
	<small>Director</small>	<small>10% Owner</small>	<small>Officer</small>	<small>Other</small>
BAUMANN BARBARA M 1 S. CHURCH AVENUE UE201 TUCSON, AZ 85701	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Signatures

Amy J. Welander, Attorney in Fact	01/19/2010
<small>**Signature of Reporting Person</small>	<small>Date</small>

## 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) Each share of phantom stock is the economic equivalent of one share of common stock under the UniSource Energy Corporation Management and Directors Deferred Compensation Plan (the "DCP").
- (2) 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.