FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

| OMB APPROVAL             |           |  |  |  |  |  |  |  |
|--------------------------|-----------|--|--|--|--|--|--|--|
| OMB Number:              | 3235-0287 |  |  |  |  |  |  |  |
| Estimated average burden |           |  |  |  |  |  |  |  |
| hours per response:      | 0.5       |  |  |  |  |  |  |  |

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| Name and Address of Reporting Person*     Greene Stephen S      |  |  |   |                        | USE   | 2. Issuer Name and Ticker or Trading Symbol USEC INC [ USU ] |  |       |                                     |         |  |  |                        |   | heck all  | nship of R<br>applicabl<br>irector   |  | g Person(s) to<br>10% (  |   |
|---|--|--|---|------------------------|---|--|--|-------|-------------------------------------|---------|--|--|------------------------|---|---|--|--|--|---|
| I   |  |  |   |                        | 3. Date of Earliest Transaction (Month/Day/Year) 03/01/2013 |  |  |       |                                     |         |  |  |                        |   | officer (giv<br>elow)<br>VP, Fi                             |  |  | Other (specify below)  Treasurer                                     |   |
| (Street) BETHES (City)  |  |  | 0817<br>Zip)  |                        | 4. If A   | 4. If Amendment, Date of Original Filed (Month/Day/Year)     |  |       |                                     |         |  |  |                        |   | ne)<br><mark>X</mark> F                                     | dual or Joint/Group Filing (Check Applicable 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. Transactic Date (Month/Day/ |  |  |   |                        | y/Year)   | Execution Date,  |  |       |                                     |         |  | ities Acquired (<br>d Of (D) (Instr. 3 |                        |   | Se<br>Be  | Amount of curities eneficially when the curities when the curing t | .  | 6. Ownership<br>Form: Direct<br>(D) or<br>Indirect (I)<br>(Instr. 4) | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|   |  |  |   |                        |   |  |  |       | Code                                | v       | Amount   | (A<br>(C                               | () or<br>()            | Price   | Following<br>Reported<br>Transaction(s)<br>(Instr. 3 and 4) |  | ı(s)   | (msu. 4)   | (msu. 4)  |
| Common  | 013  |  | F   |                        | 1,579   |  | D  | \$0.4 | 49                                  | 103,331 | 1(1)   | I                                      | 232                    |   |   |  |  |  |   |
|   |  | Та   | ble II  | - Derivat<br>(e.g., pւ |   |  |  |       |                                     |         |  |  |                        |   | y Owr   | ed   |  |  |   |
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3)             | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security            | 3. Transaction<br>Date<br>(Month/Day/Year) | 3A. Deemed<br>Execution Date,<br>if any<br>(Month/Day/Year) |                        | 4.<br>Transaction<br>Code (Instr.<br>8)                     |  | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) |       | 6. Date E:<br>Expiratio<br>(Month/D |         | Amount of<br>Securities<br>Underlying<br>Derivative<br>Security (Instr<br>3 and 4) |  |                        | 8. Price<br>of<br>Derivat<br>Securit<br>(Instr. | derive<br>Secu<br>Bene<br>Owne<br>Follo<br>Repo             | rities eficially ed owing orted saction(s  | Ownership<br>Form:<br>Direct (D)<br>or Indirect<br>(I) (Instr.<br>4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4)   |   |
|   |  |  |   |                        | Code  | v  | (A)  | (D)   | Date<br>Exercisal                   |         | Expiration<br>Date   | Title                                  | or<br>Nur<br>of<br>Sha | nber<br>res                                     |   |  |  |  |   |

## Explanation of Responses:

1. Includes 53,376 restricted shares issued pursuant to the Company's equity incentive plan.

## Remarks:

/s/ Kerri R. Morey, Attorney-In-Fact 03/05/2013

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.