

FORM 4

[] Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

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

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

| | | | | | | | | |
|--|---------|----------|---|--|--|---|--|--|
| 1. Name and Address of Reporting Person * | | | 2. Issuer Name and Ticker or Trading Symbol | | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | |
| Smith Rodney Arthur | | | ANIXTER INTERNATIONAL INC [AXE] | | | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) EVP - Human Resources | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (MM/DD/YYYY) | | | | | |
| | | | 3/5/2014 | | | | | |
| C/O ANIXTER INTERNATIONAL INC., 2301 PATRIOT BLVD. | | | 4. If Amendment, Date Original Filed (MM/DD/YYYY) | | | 6. Individual or Joint/Group Filing (Check Applicable Line) | | |
| (Street) | | | | | | <input checked="" type="checkbox"/> Form filed by One Reporting Person | | |
| GLENVIEW, IL 60026 | | | | | | <input type="checkbox"/> Form filed by More than One Reporting Person | | |
| (City) | | | (State) | | | (Zip) | | |

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

| 1. Title of Security (Instr. 3) | 2. Trans. Date | 2A. Deemed Execution Date, if any | 3. Trans. 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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|----------------|-----------------------------------|---------------------------|---|---|------------|--|--|---|
| | | | Code | V | Amount | (A) or (D) | | | |
| Common stock | 3/5/2014 | | A | | 1060 (1) | A | \$54.08 | 22234 (2) | D |
| Common stock | 3/5/2014 | | D | | 1060 (1) | D | \$106.5621 (3) | 21174 (2) | D |
| Common stock units | 3/6/2014 | | A | | 2571 (4) | A | \$0.00 | 23745 (5) | D |

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

| 1. Title of Derivate Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Trans. Date | 3A. Deemed Execution Date, if any | 4. Trans. 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 | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction (s) (Instr. 4) | 10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|----------------|-----------------------------------|---------------------------|---|--|-----|---|-----------------|---|----------------------------|--|---|--|--|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |
| Options to purchase common stock | \$54.08 | 3/5/2014 | | M | | 1060 | | 3/1/2010 | 3/1/2018 | Common stock | 1060 | \$0.00 | 2139 | D | |

Explanation of Responses:

- (1) The shares in this transaction have been exercised and sold pursuant to a Rule 10b5-1(c) sales plan dated November 4, 2013.
- (2) Includes 7,407 common stock units.
- (3) This is the weighted average for sale prices ranging from \$106.22 to \$106.88. Upon the request of the SEC staff, the issuer or any security holder of the issuer, full information regarding the number of shares sold at each separate price will be provided.
- (4) Stock units convert to common stock on a 1-for-1 basis on the date they vest. Units vest in thirds beginning on the second anniversary of the grant date.
- (5) Includes 9,978 common stock units.

Reporting Owners

| | |
|--|--|
| | |
|--|--|

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|------------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Smith Rodney Arthur C/O ANIXTER INTERNATIONAL INC. 2301 PATRIOT BLVD. GLENVIEW, IL 60026 | | | EVP - Human Resources | |

Signatures

Michele Nelson, by power of attorney

3/7/2014

** Signature of Reporting Person

Date

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

* 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 control number.