

Torton Shay  
 Form 4  
 February 03, 2011

**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 \*  
 Torton Shay

2. Issuer Name and Ticker or Trading Symbol  
 KULICKE & SOFFA INDUSTRIES INC [KLIC]

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)

(Last) (First) (Middle)  
 1005 VIRGINIA DRIVE  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 02/01/2011

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
 Senior Vice President

FORT WASHINGTON, PA 19034  
 (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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
|                                 |                                      |  |                                | (A) or (D)  | Price   |  |   |
| Common Stock                    | 02/01/2011                           |  | M                              |   | 9,000 A \$ 7.14   | 41,286   | D   |
| Common Stock                    | 02/01/2011                           |  | S                              |   | 9,000 (1) D \$ 10.14  | 32,286   | D   |
| Common Stock                    | 02/01/2011                           |  | M                              |   | 1,811 A \$ 8.5  | 34,097   | D   |
| Common Stock                    | 02/01/2011                           |  | S                              |   | 1,811 (1) D \$ 10.5   | 32,286   | D   |
| Common Stock                    |                                      |  |                                |   |   | 1,151  | I By Kulicke and Soffa  |

Incentive Savings Plan

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

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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 (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) | Amount or Number of Shares |                            |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|----------------------------|
|  |  |                                      |  |                                |   | Date Exercisable   | Expiration Date   | Title                      | Amount or Number of Shares |
|  |  |                                      |  |                                |   | Code   | V   | (A)                        | (D)                        |
| Option to Buy-Option Plan                  | \$ 7.14  | 02/01/2011                           |  | M                              | 9,000   | <u>(2)</u> 10/30/2014                                    | Common Stock  | 9,000                      |                            |
| Option to Buy-Option Plan                  | \$ 8.5   | 02/01/2011                           |  | M                              | 1,811   | <u>(3)</u> 10/04/2016                                    | Common Stock  | 1,811                      |                            |

## Reporting Owners

| Reporting Owner Name / Address                                  | Relationships |           |                       |       |
|---|---------------|-----------|-----------------------|-------|
|   | Director      | 10% Owner | Officer               | Other |
| Torton Shay<br>1005 VIRGINIA DRIVE<br>FORT WASHINGTON, PA 19034 |               |           | Senior Vice President |       |

## Signatures

/s/ Susan L. Waters, Attorney-in-Fact for Shay  
Torton

02/03/2011

        \*\*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 shares covered by this Form 4 were sold pursuant to a Rule 10b5-1(c) sales plan dated May 24, 2010.

(2) Grant had a graded vesting schedule. All options vested 5 years after grant.

(3) Grant had a graded vesting schedule. All options vested 3 years after grant.

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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