

WAITE BARRY
Form 4
May 12, 2010

FORM 4

**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, 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 *
WAITE BARRY

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)
05/10/2010

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

FORT WASHINGTON, PA US
19034

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

(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 | 05/10/2010 | | S | | 200 ⁽¹⁾ | D | \$ 7.59 |
| Common Stock | 05/10/2010 | | S | | 4,102 ⁽¹⁾ | D | \$ 7.6 |
| Common Stock | 05/10/2010 | | S | | 1,169 ⁽¹⁾ | D | \$ 7.61 |
| Common Stock | 05/10/2010 | | S | | 529 ⁽¹⁾ | D | \$ 7.62 |
| Common Stock | 05/10/2010 | | M | | 10,000 | A | \$ 5.53 |

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| | | | | | | | |
|--------------|------------|---|-------|---|---------|--------|---|
| Common Stock | 05/10/2010 | S | 1,750 | D | \$ 7.61 | 51,230 | D |
| Common Stock | 05/10/2010 | S | 5,200 | D | \$ 7.62 | 46,030 | D |
| Common Stock | 05/10/2010 | S | 3,050 | D | \$ 7.63 | 42,980 | D |

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

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(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) | 8. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Option to buy - Option Plan | \$ 5.53 | 05/10/2010 | | M | 10,000 | <u>(2)</u> 03/31/2013 | Common Stock | 10,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| WAITE BARRY 1005 VIRGINIA DRIVE FORT WASHINGTON, PA US 19034 | | X | | |

Signatures

Susan L. Waters, Attorney-in-Fact for Barry Waite
Date: 05/12/2010

__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 shares were sold pursuant to a Rule 10b5-1(c) sales plan dated December 18, 2009.

(2) Options became exercisable 2/28/2004, 2/28/2005, 2/28/2006 and 2/28/2007.

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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