

Livingston Jason  
 Form 3  
 September 29, 2009

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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 *<br>Â Livingston Jason<br>(Last) (First) (Middle)<br><br>1005 VIRGINIA DRIVE<br>(Street)<br><br>FORT WASHINGTON, Â PA Â 19034<br>(City) (State) (Zip) | 2. Date of Event Requiring Statement<br>(Month/Day/Year)<br>09/22/2009 | 3. Issuer Name and Ticker or Trading Symbol<br>KULICKE & SOFFA INDUSTRIES INC [KLIC] | 4. Relationship of Reporting Person(s) to Issuer<br><br>(Check all applicable)<br><input type="checkbox"/> Director <input type="checkbox"/> 10% Owner<br><input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other<br>(give title below) (specify below)<br>VP, Wedge Bonding Division | 5. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Filing(Check Applicable Line)<br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> Form filed by More than One Reporting Person |
|--|--|--|--|--|---|

**Table I - Non-Derivative Securities Beneficially Owned**

| 1. Title of Security<br>(Instr. 4) | 2. Amount of Securities Beneficially Owned<br>(Instr. 4) | 3. Ownership Form:<br>Direct (D)<br>or Indirect (I)<br>(Instr. 5) | 4. Nature of Indirect Beneficial Ownership<br>(Instr. 5)         |
|------------------------------------|--|---|--|
| Common Stock                       | 653,945  | D   | Â  |
| Common Stock                       | 587,154  | I <sup>(1)</sup>  | By OE Holdings, Inc., formerly Orthodyne Electronics Corporation |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)

**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.**

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

| 1. Title of Derivative Security<br>(Instr. 4) | 2. Date Exercisable and Expiration Date<br>(Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security | 4. Conversion or Exercise | 5. Ownership Form of | 6. Nature of Indirect Beneficial Ownership<br>(Instr. 5) |
|---|---|--|---------------------------|----------------------|--|
|---|---|--|---------------------------|----------------------|--|

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| Date Exercisable | Expiration Date | (Instr. 4) | Amount or Number of Shares | Price of Derivative Security | Derivative Security: Direct (D) or Indirect (I) |
|------------------|-----------------|------------|----------------------------|------------------------------|---|
|                  |                 | Title      |                            |                              |   |

## Reporting Owners

| Reporting Owner Name / Address                                       | Relationships |           |                                       |       |
|--|---------------|-----------|---------------------------------------|-------|
|  | Director      | 10% Owner | Officer                               | Other |
| Livingston Jason<br>1005 VIRGINIA DRIVE<br>FORT WASHINGTON, PA 19034 | â             | â         | â VP,<br>Wedge<br>Bonding<br>Division | â     |

## Signatures

/s/ Susan L. Waters, Attorney-in-Fact for Jason Livingston  
 09/29/2009

Signature of Reporting Person

Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, see Instruction 5(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) These securities represent the reporting person's proportionate share of the 4,077,457 shares of common stock held by Orthodyne Electronics Corporation as of September 27, 2009. The reporting person disclaims beneficial ownership of these securities except to the extent of his pecuniary interest therein, and this report shall not be deemed an admission that the reporting person is the beneficial owner of such securities for purposes of Section 16 or for any other purposes.

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.