

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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

| OMB APPROVAL | |
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|---|---|---|
| 1. Name and Address of Reporting Person * <u>MAIER LOTHAR</u> (Last) (First) (Middle) <u>7005 SOUTHFRONT ROAD</u> (Street) <u>LIVERMORE CA 94551</u> (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>FORMFACTOR INC [FORM]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below) |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>05/19/2011</u> | |
| 4. If Amendment, Date of Original Filed (Month/Day/Year) | | |

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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|-------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | 05/20/2011 | | M | | 6,000 ⁽¹⁾ | A | \$0 | 6,000 | D | |
| Common Stock | | | | | | | | 12,000 | I | By Maier Trust |

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 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: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----|--|-----------------|---|--|--|---|--|-------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | | Title |
| Restricted Stock Units | \$0 | 05/19/2011 | | A | | 6,000 | | (2) | (3) | Common Stock | 6,000 | \$0 | 12,000 | D | |
| Restricted Stock Units | \$0 | 05/20/2011 | | M | | 6,000 | | (4) | (5) | Common Stock | 6,000 | \$0 | 6,000 | D | |

Explanation of Responses:

- Represents vested shares of common stock issued pursuant to the conversion of 100% of the restricted stock units granted on May 20, 2010.
- Restricted Stock Units vest and become exercisable in 12 equal monthly installments with the vesting dates beginning on June 19, 2011 and ending on May 19, 2012. Settlement of vested Units into common stock will occur on the earlier of May 19, 2012 and the date the reporting person ceases to provide services to the Issuer, or thereafter, on the first market trading day in an open trading window under Issuer's insider trading policy if the applicable date is not a market trading day in an open trading window.
- If the reporting person ceases to provide services to the Issuer for any reason, all Restricted Stock Units that have not yet vested shall be forfeited without consideration except as provided in Section 9.5 of the Plan and any other agreements regarding award vesting and exercisability between the reporting person and Issuer, which agreement or form agreements are filed with the SEC.
- Restricted Stock Units vest and become exercisable in 12 equal monthly installments with the vesting dates beginning on June 20, 2010 and ending on May 20, 2011. Settlement of vested Units into common stock will occur on the earlier of May 20, 2011 and the date the reporting person ceases to provide services to the Issuer, or thereafter, on the first market trading day in an open trading window under Issuer's insider trading policy if the applicable date is not a market trading day in an open trading window.
- The restricted stock units released on May 20, 2011, were settled in shares of common stock, and were immediately cancelled upon settlement.

Remarks:

The amount of securities shown in Table I, Column 5, as being indirectly beneficially owned reflects the transfer of 6,000 shares of common stock on October 21, 2010 from direct ownership to the L. Maier and L. Maier Tees Maier 12/18/1989 Revocable Trust. THE ATTACHED CONFIRMING STATEMENT GRANTING THE ATTORNEY-IN-FACT THE AUTHORITY TO EXECUTE AND FILE THIS FORM 4 HAS BEEN FILED WITH THE U.S. SECURITIES AND EXCHANGE COMMISSION.

By: /s/ Stuart L Merkadeau,
Attorney-in-Fact For: Lothar Maier 05/23/2011

** 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 Number.

POWER OF ATTORNEY

Know all by these presents, that the undersigned hereby constitutes and appoints each of Stuart L. Merkadeau, Richard DeLateur and Henry I. Feir, signing singly, the undersigned's true and lawful attorney-in-fact to:

(1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer and (or) director of FormFactor, Inc. (the "Company"), Forms 3, 4 and 5 (including amendments thereto) in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and the rules and regulations thereunder;

(2) do and perform any and all acts for and on behalf of the undersigned that may be necessary or desirable to complete and execute any such Forms 3, 4 or 5 and timely file such form (including amendments thereto) with the United States Securities and Exchange Commission and any stock exchange or similar authority; and

(3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary or proper to be done in the exercise of any of the rights and powers herein granted as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution and revocation, hereby ratifying and confirming all that such attorney-in-fact, or such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorney-in-fact, in serving in such capacity at the request of the undersigned, is not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Exchange Act.

The undersigned agrees that such attorney-in-fact may rely entirely on information furnished orally or in writing by the undersigned to such attorney-in-fact. The undersigned also agrees to indemnify and hold harmless the Company and such attorney-in-fact against any losses, claims, damages or liabilities (or actions in these respects) that arise out of or are based on any untrue Statement or omission of necessary facts in the information provided by the undersigned to such attorney-in-fact for purposes of executing, acknowledging, delivering and filing Forms 3, 4 or 5 (including amendments thereto) and agrees to reimburse the Company and such attorney-in-fact for any legal or other expenses reasonably incurred in connection with investigating or defending against any such loss, claim, damage, liability or action.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4 or 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier (a) revoked by the undersigned in a signed writing delivered to the foregoing attorney-in-fact or (b) superseded by a new power of attorney regarding the purposes outlined in the first paragraph hereof as of a later date.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 31st day of August, 2010.

/s/Lothar Maier