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

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* Tseng Saria (Last) (First) (Middle) | | | | | | 2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 02/11/2013 | | | | | | | | | heck all D | applicable) rector fficer (give title elow) | - | Person(s) to Issuer 10% Owner Other (specify below) | |
|--|--|--|--------|--|-----------------|--|--|--|---|---|-----------------------|---|------------------------|---|---|---|------------|---|--|
| 79 GREAT OAKS BLVD (Street) SAN JOSE CA 95119 (City) (State) (Zip) | | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) 02/11/2013 | | | | | | | | Li | ne) X Fi Fi P | VP & General Counsel vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person | | | | | |
| Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day) | | | | | tion y/Year) | on 2A. Deemed Execution Date, | | | 3. Transaction Code (Instr. and 5) | | | of, or Benefic ities Acquired (A d Of (D) (Instr. 3, | | | or 5. Se | Amount of curities neficially ned | For (D) | Ownership rm: Direct or lirect (I) | 7. Nature of Indirect Beneficial Ownership |
| | | | | | Ĺ | | | | Code | v | Amount | (| A) or D) | Price | e Re Tra | Following Reported Transaction(s) (Instr. 3 and 4) | | str. 4) | (Instr. 4) |
| Common Stock 02/11/20 | | | | | .013 |)13 | | | A ⁽¹⁾ | | 10,644 ⁽²⁾ | | Α | \$ <mark>0</mark> | .0 | 83,794 | | D | |
| | 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) | if any | eemed tion Date, n/Day/Year) | Code (Ir 8) | Transaction Code (Instr. | | mber rative rities iired r osed) :. 3, 4 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date | | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amoun or Numbe of Title Shares | | ount | 8. Price of Derivati Security (Instr. 5 | Beneficiall | y | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |

Explanation of Responses:

1. This amendment is to eliminate the reporting of 31,930 Performance Stock Units because they were reported as granted and not when they are earned. In addition, due to an administrative error the number of Restricted Stock Units granted was incorrectly stated.

2. These 31,930 shares of Performance Stock Units were granted and shall be subject to satisfaction of performance-based vesting criteria based on achievement of certain long term Company performance targets, as determined by the Compensation Committee of the Company, and additional time vesting subsequent to the achievement of those performance targets, provided that the Grantee continues to be a Service Provider from the grant date through each applicable vesting date.

By: Meera Rao For: Saria Tseng

04/25/2013

** 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.