FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| OMB APPROVAL | | | | | | | |
|--------------------------|-----------|--|--|--|--|--|--|
| OMB Number: | 3235-0287 | | | | | | |
| Estimated average burden | | | | | | | |
| hours per response: | 0.5 | | | | | | |

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

| Name and Address of Reporting Person* Hsing Michael | | | | | 2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] | | | | | | | | (Check all applicable X Director | | | porting Person(s) to Issue 10% Owne title Other (spe | | Owner - |
|---|--|--|---|---------------------------------|---|----------------------|------------------------------|-------------------------------------|--|----------|---------------|---|-----------------------------------|--|--------|--|---|--|
| (Last) (First) (Middle) 79 GREAT OAKS BLVD | | | | | 3. Date of Earliest Transaction (Month/Day/Year) 02/05/2015 | | | | | | | | | Officer (give tit below) | | belov CEO | | |
| (Street) SAN JOSE CA 95119 (City) (State) (Zip) | | | | 4. If A | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | | Individual or Joint/Group Filing (Check Applicable e) X 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 | | | | | | | | | | | | | | | | | |
| , (| | | 2. Transaction Date (Month/Day/Yea | Exec r) if an | 2A. Deemed Execution Date, if any (Month/Day/Yea | | Co | nsaci de (In | | | | | nd | 5. Amount of Securities Beneficially Owned | | 6. Ownership Form: Direct (D) or Indirect (I) | | 7. Nature of Indirect Beneficial Ownership |
| | | | | | | | Co | Code V | | Amount | (A) or (D) | Price | | Following Reported Transaction(s) (Instr. 3 and 4) | | (Instr. 4) | | (Instr. 4) |
| Common | Stock | | 02/05/2015 | | | | | S | | 2,699(1) | D | \$48.02 | 202 | 591, | 170(2) | | D | |
| Common | Stock | | | | | | | | | | | | | 465 | ,566 | | I | By Jointly w/Spouse |
| Common Stock | | | | | | | | | | | | | | 133 | ,040 | | I | By S. Hsing 04 Trust |
| Common Stock | | | | | | | | | | | | | | 29, | 000 | | | Hsing Fam Foundation |
| Common Stock | | | | | | | | | | | | | | 133 | ,040 | | | by M Hsing 04 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. Transac Code (II 8) | mber ative ities red sed 3, 4 | 6. D Expi (Mor | ate Exc iration nth/Da | ercisable and I Date ny/Year) | 7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4) Amou or Numb | | 8. OD SIGN | 8. Price of Services of Security Beneficial Owned Followin Reporter Transact (Instr. 4) | | e Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | | Beneficial Ownership | | |

Explanation of Responses:

- 1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- 2. The reported transaction is being amended to correct the beneficial ownership from Indirect to Direct.

By: Meera Rao For: Michael Hsing

02/13/2015

<u>HSHig</u>

** 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.