Hsing Michael Form 4 November 12, 2010

Common

Stock

OMB APPROVAL UNITED STATES SECURITIES AND EXCHANGE COMMISSION OMB 3235-0287 Washington, D.C. 20549 Number: Check this box January 31, Expires: if no longer 2005 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF subject to Estimated average **SECURITIES** Section 16. burden hours per Form 4 or response... 0.5 Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction 1(b). (Print or Type Responses) 1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Hsing Michael Issuer Symbol MONOLITHIC POWER SYSTEMS (Check all applicable) INC [MPWR] (Last) (First) (Middle) 3. Date of Earliest Transaction _X__ Director 10% Owner X_ Officer (give title Other (specify (Month/Day/Year) below) below) 6409 GUADALUPE MINES ROAD 11/10/2010 **CEO** (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting SAN JOSE, CA 95120 Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired (A) 5. Amount of 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction Disposed of (D) Securities Ownership Indirect (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Beneficial (Month/Day/Year) Owned Direct (D) Ownership (Instr. 8) Following or Indirect (Instr. 4) Reported (A) Transaction(s) (Instr. 4) (Instr. 3 and 4) Code V Amount (D) Price Common 6,670 \$ D 11/10/2010 S 288,973 D Stock (1) 15.4294 Common By Jointly I 498,566 Stock w/Spouse By S. Common 133,040 I Hsing 04 Stock

Trust by M

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133,040

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

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9. Nu Deriv Secu Bene

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of 2. 3. Transaction Date 3A. Deemed 4. 5. 6. Date Exercisable and 7. Title	itle and 8. Price of	
Derivative Conversion (Month/Day/Year) Execution Date, if TransactionNumber Expiration Date Amou	ount of Derivative	į
Security or Exercise any Code of (Month/Day/Year) Under	erlying Security	
(Instr. 3) Price of (Month/Day/Year) (Instr. 8) Derivative Secur	urities (Instr. 5)	
Derivative Securities (Instr.	tr. 3 and 4)	
Security Acquired		Ì
(A) or		į
Disposed		
of (D)		
(Instr. 3,		
4, and 5)		
	Amount	
Date Expiration Title	or e Number	
Exercisable Date	of	
Code V (A) (D)	Shares	

Reporting Owners

Reporting Owner Name / Address	Relationships			
. 5	Director	10% Owner	Officer	Other
Hsing Michael 6409 GUADALUPE MINES ROAD SAN JOSE, CA 95120	X		CEO	

Signatures

By: Rick Neely For: Michael 11/12/2010 Hsing

**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) Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

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.

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