FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
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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* Hsing Michael (Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					MO [MP 3. Da 02/0	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 02/03/2012 4. If Amendment, Date of Original Filed (Month/Day/Year)									X Direct X Offict Delored	blicable) ctor er (give title		Owner r (specify v)
(Street) SAN JOS (City)			95120 (Zip)												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																	
1. Title of Security (Instr. 3) 2. Transact Date (Month/Date)				/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired Disposed Of (D) (Instr. and 5)				Securi Benefi Owned	icially d	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A (D) or)	Price			(Instr. 4)	(Instr. 4)
Common	Stock			02/03/2	012				S ⁽¹⁾		578		D :	\$16.7	8 65	4,180	D	
Common	Stock														49	8,566	I	By Jointly w/Spouse
Common Stock															13	3,040	I	By S. Hsing 04 Trust
Common Stock														133,040		I	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 1. Title of Derivative Security 1. Title of Derivative Security 2. Conversion Date (Month/Day/Year) 3. Transaction Date Execution if any (Month/Day/			eemed tion Date,	4. Transa Code (5. Number of			xerc	isable and	able and 7. Title and Amount of Securities Underlying Derivative Security (Instr		str.	3. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr.	Beneficial Ownership	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amo or Nun of Sha					

Explanation of Responses:

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

By: Saria Tseng For: Michael Hsing 02/

** Signature of Reporting Person

02/03/2012

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.

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