FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
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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

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		olicable)	orting Person(s) to Iss 10% Ow itle Other (s		Owner
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					3. Date of Earliest Transaction (Month/Day/Year) 02/02/2012									X	below)		below)		
(Street) SAN JOS (City)	(Street) SAN JOSE CA 95120			4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									vidual or Joint/Group Filing (Check Applicable 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. Transaction Date (Month/Day/Y			Execution		emed ion Dat	on Date,		ction nstr.	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			or -	5. Amount of Securities Beneficially Owned		6. Owners Form: Dir (D) or Indirect (I	ect	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)		ted action(s)	(Instr. 4)		(Instr. 4)	
Common	Stock			02/02/201	2				<b>S</b> <sup>(1)</sup>		3,740	D	\$16.	7401	65	54,758	D		
Common Stock													49	98,566	I		By Jointly w/Spouse		
Common Stock														13	33,040	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)																		
Derivative Conversion Date Security or Exercise (Month/Day/Year) if any			4. Transa Code ( 8)		5. Nu of Deriv Secu Acqu (A) o Disp of (D (Instr	rative rities ired r osed )	Expir (Mon	te Exer ation I th/Day	Year) Securi Under Deriva		nt of ties ying tive ty (Instr	of Der Sec (In:	Price rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owne Form: Direct or Inc (I) (In: 4)	(D) irect	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	of Shares						

## 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/

02/02/2012

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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.