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

1. Name and Address of Reporting Person*  Hsing Michael  (Last) (First) (Middle)  6409 GUADALUPE MINES ROAD  (Street)				2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]  3. Date of Earliest Transaction (Month/Day/Year) 02/10/2012  4. If Amendment, Date of Original Filed (Month/Day/Year)								(Che	ck all app  Direct Offic below	olicable) oftor er (give title w)		Owner r (specify v)		
SAN JOS (City)		95120 ate) (Zip)												1	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																	
Date			2. Transact Date (Month/Day	/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired ( Disposed Of (D) (Instr. 3 and 5)				5. Amo Securi Benefi Owned	cially I	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A)	or P	rice	Repor Transa		(Instr. 4)	(Instr. 4)
Common	Stock			02/10/2	012				<b>S</b> <sup>(1)</sup>		4,609	]	) \$	16.42	64	9,571	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 or Exercise (Month/Day/Year) Date Execution Date, if any (Month/Day/Year)  (G. 9., 1			eemed tion Date,	4. Transaction Code (Instr. 8)			rative rities rired r osed )		Exerc	sable and te Amount of Securities Underlying Derivative Security (Ins 3 and 4)		8. o D S (I	Price f erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership		
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amo or Num of Share	ber				

## Explanation of Responses:

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

By: Meera Rao For: Michael Hsing 02/13/2012

\*\* 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.