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 ]									all applicab			10% C	wner
(Last) 6409 GUAD	(First)	( IINES ROAD	Middle)			3. Date of Earliest Transaction (Month/Day/Year) 02/18/2011								X	Officer (give title below)		Other below)		(specify
(Street) SAN JOSE (City)	CA (State		95120 Zip)		_   4	. If A	.mendm	ent, Date	e of Original Filed (Month/Day/Year)					6. Indiv Line) X	vidual or Joint/Group Filing (Check Application Form filed by One Reporting Person Form filed by More than One Reporting Person				son
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date				Date	2. Transaction Date Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (ADisposed Of (D) (Instr. 3 and 5)				5. Amount Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amoun	it	(A) or (D)	Price	Reported Transaction (Instr. 3 and		(msu.	(Instr. 4) (Instr.	
Common Stock			02/18/2011		1			M		240,0	40,000 <sup>(1)</sup> A		\$5	692,105		D			
Common Sto	ommon Stock													498,56	56		I	By Jointly w/Spouse	
Common Stock															133,040				By S. Hsing 04 Trust
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)	any	med on Date, if /Day/Year)	4. Trans Code (li 8)				6. Date Exercisable Expiration Date (Month/Day/Year)			Securit	and Amo ties Under tive Secur		8. Price of Derivative Security (Instr. 5)	9. Numl derivati Securiti Benefic Owned Followi Reporte	ve ies cially ng ed	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V (A) (D)		Date Exercisable		piration te	Nu		Number of Shares		(Instr. 4	action(s) . 4)				
Non-Qualified Stock Option (right to buy)	\$5	02/18/2011			М			240,000	01/13/200:	5 01	/13/2014		nmon ock	240,000(1	\$0	(	)	D	

## **Explanation of Responses:**

1. Represents vested shares acquired through the cash exercise of a stock option in compliance with the Company's Insider Trading Compliance Program.

By: Saria Tseng For: Michael <u>02/18/2011</u> Hsing

\*\* 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.