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					MO	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									ck all applic	10% Owner		wner	
(Last) 6409 GU		rst) (E MINES ROAD	Middle)		3. Da			iest Tran	nsaction (Month/Day/Year)						below)	(give title	CEO	below)	specify
(Street)	SE C	A 9	95120		4. If A	Amer	ndme	nt, Date	of Original	File	d (Month/	Day/Yea	r)	Line	Form fi	led by On	e Repo	g (Check A orting Pers n One Rep	on
(City)	(Si	tate) (Zip)												Person	-			51g
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date			2. Transac Date (Month/Da		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (AD Disposed Of (D) (Instr. 3 and 5)				5. Amour Securitie Beneficia Owned	s illy	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A)	or	Price	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		Instr. 4)
Common Stock 02/17/2					2011	011			M		19,77	4	1	\$7.77	7 452,105		D		
Common Stock															498,	566		Ι.	By Jointly w/Spouse
Common Stock														133,	040		I .	By S. Hsing 04 Frust	
Common Stock													133,040		I		oy M Hsing 04 Γrust		
			Tab	le II - Deri (e.g.					uired, Di						vned				
1. Title of Derivative Security (Instr. 3)	1. Title of 2. 3. Transaction Date Execution Date, (Month/Day/Year)			4. Transac	4. Transaction Code (Instr.		5. Number on of			able and	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		ecurity 4)	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Followin Reported Transact (Instr. 4)	e ally g d ion(s)	10. Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Beneficial Ownership	
					Code	v	(A)	(D)	Date Exercisabl		xpiration ate	Title	or Nu	nount ımber Shares					
Incentive Stock Option (right to buy)	\$7.77	02/17/2011			М		(-)	19,774	01/26/2006	\dagger	1/16/2015	Commo),774 ⁽¹⁾	\$0	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 Hsing

02/17/2011

** 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.