## 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					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR									5. Relationship of Repo (Check all applicable) X Director			10%	Owner	
(Last) 79 GREA	3. Date of Earliest Transaction (Month/Day/Year) 02/04/2013									)		Officer (give title below)		belo	er (specify w)				
(Street) SAN JOSE CA 95119					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting					
(City)	(Sta	ate) (Z	Zip)											Pers	on				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year	2A. Deemed Execution Date, ) if any (Month/Day/Year)		3. Transaction Code (Instr. 8)			4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a 5)			and Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership				
						Code		v	Amount	(A) or (D)			Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)		
Common Stock			02/04/2013				S	<b>S</b> <sup>(1)</sup>		3,763	D	D \$23.2810		633,044			D		
Common Stock		02/05/2013	3			<b>S</b> <sup>(1)</sup>		Ш	603	D	\$23.2	6	632	2,441		D			
Common Stock												465,50		,566		I	By Jointly w/Spouse		
Common Stock														133	,040		I	By S. Hsing 04 Trust	
Common	Stock												1 33000 1 1 1				Hsing Fam Foundation		
Common Stock														133	,040			by M Hsing 04 Trust	
		Та	ble II - Derivati (e.g., pu							posed of, convertil				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, if any (Month/Day/Year)	4. Transac Code (li 8)		5. Nun of Deriva Securi Acquii (A) or Dispos of (D) (Instr. and 5)	tive ties ed	Expi (Mor	ration nth/Da	y/Year)	Amount of Securities Underlying Derivative Security (Instr 3 and 4)		o D S (I	3. Price of of orivative Security Beneficial Owned Followin Reporter Transact (Instr. 4)		e Ownership s Form: ally Direct (D) or Indirect g (I) (Instr. 4)		Beneficial Ownership	

## Explanation of Responses:

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

By: Saria Tseng For: Michael Hsing 02/06/2013

\*\* 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.