FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
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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]								Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
(Last) 79 GREA	(Fi AT OAKS E	,	3. Date of Earliest Transaction (Month/Day/Year) 02/15/2013								2	X Offic belo			bel	er (specify ow)			
(Street) SAN JOS		CA 95119 (State) (Zip)				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 Person					
(Oity)	(0.			n-Deriva	ative S	Secu	rities A	cauire	ed. Di	isposed o	f. or E	Benefic	:iall	v Own	ed				
1. Title of Security (Instr. 3)		2. Tr Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date,		3. Transaction Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4 5)			or 5. Amor and Securiti Benefic Owned		nt of es ally	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership		
							Code V		Amount	unt (A) or (D) Pric		Following Reported Transaction(s) (Instr. 3 and 4)		d tion(s)	(Instr. 4)		(Instr. 4)		
Common	Stock		02	/15/2013	3			J ⁽¹⁾		809	A	\$17.8	84	687	,031		D		
Common	Stock													465	,566		I	By Jointly w/Spouse	
Common	Stock													133	,040		I	By S. Hsing 04 Trust	
Common Stock													33,000		I		Hsing Fam Foundation		
Common Stock													133,040		I		by M Hsing 04 Trust		
		Та								oosed of, convertib				Owned					
1. Title of Derivative Security (Instr. 3)	Conversion Date Exor Exercise (Month/Day/Year) if		3A. Deen Execution	. Deemed 4. ecution Date, Tra		ansaction of Deriving Acquired (A) or Dispoor of (D) (Instr. and 5		ber 6. Date Ex Expiration (Month/Daies ed		rcisable and Date	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		8 0 0 S	. Price f Perivative ecurity nstr. 5)	9. Numb derivativ Securitie Benefici Owned Followir Reported Transact (Instr. 4)	ve Owners es Form: ially Direct (or Indir ng (I) (Instr		Beneficial Ownershi ect (Instr. 4)	
					Code	v	(A) (D	Date Exer	cisable	Expiration Date	Title	Amoun or Number of Shares	r						

Explanation of Responses:

1. Acquired through the Company's qualified ESPP program.

By: Meera Rao For: Michael Hsing

02/20/2013

** 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.