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]									5. Relationship of Rep (Check all applicable) X Director			Owner -
(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 02/11/2013									X Officer (give title below) Other (s				
(Street) SAN JOS (City)	SAN JOSE CA 95119			4. If	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					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Trans				2. Transaction	n ear)	2A. Deemed Execution Date,		3. Transac Code (I 8)	ction	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 and 5)				Securities Beneficially Owned		Form: (D) or Indirect		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) (D)	or Pri	ce	Followin Reported Transact (Instr. 3	d tion(s)	(Instr	. 4)	(Instr. 4)
Common	Stock			02/11/201	13				A		125,635(1)) A	\$	0.0	686	,222		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	ble	II - Derivat (e.g., pu						•	osed of, o			-	Owned				
1. Title of Derivative Security (Instr. 3)	1. Title of Derivative Conversion Date Security or Exercise (Month/Day/Year) if any			4. Trans	ransaction of Oerivativ			r 6. Da Expir (Mon		cisable and 7. Title and Amount of		ir.	3. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownershi Form: Direct (Di or Indirect (I) (Instr. 4)	Beneficial Ownership		
					Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	or Numb of Share	er					

Explanation of Responses:

1. 25% of the Restricted Stock Units shall vest at 1/8th quarterly following the Vesting Commencement Date, provided that the Grantee continues to be a Service Provider from the Grant Date through each applicable vesting date. Additionally, 75% of the Restricted Stock Units were granted and shall be subject to satisfaction of performance-based vesting criteria based on achievement of certain long term Company performance targets, as determined by the Compensation Committee of the Company, and additional time vesting subsequent to the achievement of those performance targets, provided that the Grantee continues to be a Service Provider from the grant date through each applicable vesting date.

By: Meera Rao For: Michael Hsing

02/13/2013

** Signature of Reporting Person

n Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

^{*} 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).