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 MONOLITHIC POWER SYSTEMS INC										p of Reporti olicable) ctor	ng Pe	10% C	Owner
(Last) (First) (Middle) 79 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 08/27/2012									X	Officer (give title below)		EO	Other below	(specify)
(Street) SAN JOS	(Street) SAN JOSE CA 95119					4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applica Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				son	
(City)	(Sta		ip)																	
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye					2A. Deemed Execution Date			ed Date,	3. Transaction Code (Instr.			4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)			or -	5. Amount of		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
									c	ode	v	Amount	(A) or (D)	(A) or (D) Price		Reported Transaction(s) (Instr. 3 and 4)				(
Common Stock (08/27/201	2					S ⁽¹⁾		6,665	D	\$23.	002(2)	2 ⁽²⁾ 671,370			D		
Common Stock															498,566		I		By Jointly w/Spouse	
Common Stock															13	33,040			By S. Hsing 04 Trust	
Common Stock														133,040			I	by M Hsing 04 Trust		
		Та	ble	II - Derivati (e.g., pu								osed of, convertib				wned				
1. Title of Derivative Security (Instr. 3)	Title of 2. 3. Transaction 3A. Deemed Execution Date Execution Date, or Exercise (Month/Day/Year) if any					sactio	5. Numbord of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3	ve es ed	6. Dat Expira (Mont	ation I		Amount of Securities Underlying Derivative Security (Instr 3 and 4)		of De Sec (In:	Price rivative curity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	/ C F O (I 4	10. Ownership Form: Direct (D) or Indirect I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V		,	(A) (E))	Date Exercisable		Expiration Date	Title	Numb of Share:								

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$23.00 to \$23.04. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Saria Tseng For: Michael Hsing

08/29/2012

** 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.