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

1. Name and Address of Reporting Person* Hsing Michael (Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					M() [N/) 3. E/ 05/	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 05/08/2012 4. If Amendment, Date of Original Filed (Month/Day/Year)									(Chec X X	X Officer (give title Of below) CEO 6. Individual or Joint/Group Filing (Chro			10% C	Owner (specify
(Street) SAN JOS (City)	E CA 95120 (State) (Zip)															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. Transaction Date (Month/Day/Ye					Execution Date,			Code (Instr.			4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)					cially I	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									-	Code	v	Amount	(A) or (D)	Price		Repor		(instr.	4)	(Instr. 4)
Common	Stock			05/08/201	12					S ⁽¹⁾		3,582	D	\$20.	2752	69	8,290	I)	
Common	Stock															49	98,566]	I	By Jointly w/Spouse
Common Stock																13	3,040]	I	By S. Hsing 04 Trust
Common Stock															133,040			I	by M Hsing 04 Trust	
		Та	ble l	II - Derivat								osed of, o				wned				
1. Title of Derivative Security (Instr. 3)	Title of 2. 3. Transaction Bate Conversion Date Execution Date, (Month/Day/Year)			4. Trans Code 8)	sactio	on of tr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Exer	cisable and	7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)		8. I of Dei Sec (In:	Price rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	Ow For Oir or (I) 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	, ,	, ((A)	(D)	Date Exerci	sable	Expiration Date	Title	or Number of Shares	er					

Explanation of Responses:

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

By: Saria Tseng For: Michael Hsing 05

05/08/2012

** 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.