FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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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

					10	r Sec	tion	30(h) of th	e Inves	tment	Company Ac	t 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 Reporting Person(s) to Is (Check all applicable) X Director 10% Ov)wner	
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 05/28/2009									X	CEO CEO				
(Street) SAN JOSE CA 95120				20	- 4	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indi Line) X	ridual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting				son	
(City) (State) (Zip)							Person													
		Tab	le l	- Non-Deri	vati	ve S	Sec	urit	ies A	cquir	ed, [Disposed	of, or E	3enefi	cially	Owne	d			
Date				2. Transaction Date (Month/Day/Ye		2A. Deemed Execution Date, if any (Month/Day/Year)			ite,	3. Transad Code (I 8)		4. Securities Disposed O	and 5) Securi Benefi Owned		ties cially	Form (D) o Indir	ect (I)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price		Following (Instr. Reported Transaction(s) (Instr. 3 and 4)		r. 4)	(Instr. 4)		
Common Stock				05/28/2009						M		41,600	A	\$			8,744	D		
Common Stock				05/28/2009					_	M		15,226	A	\$7.				D		
Common Stock			_	05/28/2009				_	S	_	56,826	D	\$19.9	854(1)	87	7,144	D			
Common Stock															62	4,816	I		By Jointly w/Spouse	
Common Stock														13:	133,040		I	By S. Hsing 04 Trust		
Common Stock														133,040			I	by M Hsing 04 Trust		
		Т	abl	e II - Deriva (e.g., p	tive outs	e Se s, ca	cur	itie wa	s Ac	quired	d, Di	sposed of s, converti	, or Be	nefici curitie	ally C	wned			,	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exe if a	3A. Deemed Execution Date, if any (Month/Day/Year)		nsaction of Der Sec Acq (A) Disport		posed D) str. 3, 4	Expiration (Month/Day			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		of De Se (Ir	Price erivative ecurity astr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	e Owners Form: Direct (I or Indirect) (I) (Instration(s)		Beneficial Ownership	
					Cod	de	v	(A)	(D)	Date Exercisabl		Expiration Date	Am or Nur of Title Sha		per					
Incentive Stock Option (right to buy)	\$7.77	05/28/2009			N	М			15,22	6 01/2	6/2006	01/16/2015	Commo Stock	ⁿ 15,2	26	\$0	19,774	4	D	
Non- Qualified Stock Option (right to buy)	\$5	05/28/2009			N	М			41,60	0 01/1	3/2005	01/13/2014	Commo Stock		00	\$0	300,00	00	D	

Explanation of Responses:

^{1.} 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 \$19.66 to \$20.20. 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: Adriana Chiocchi For: Michael Hsing

** Signature of Reporting Person

05/28/2009

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.