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

				1		70() 0.				mpany Act	0								
Name and Address of Reporting Person* Hsing Michael				2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC									Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner						
					[MPWR]								2	•					
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 02/02/2016								2	belo				er (specify w)	
													CEO						
(Street)	4. If Amendment, Date of Original Filed (Month/Day/Year)								ar)	6. Individual or Joint/Group Filing (Check Applicable Line)									
SAN JOSE CA 95119														X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I - Non-Deriv	ative S	Secu	ırities	Acqu	uired,	Dis	sposed o	f, or	Benefic	ciall	y Own	ed				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transa Code 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and				nd 5) Securitie Benefici Owned		es For ially (D)		ect (I)	7. Nature of Indirect Beneficial Ownership		
							Code V		Ar	nount	(A) or Price (D)		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)		
Common Stock 0			02/02/2016			A		33	37,002(1)	A \$0.0)	1,477,032		D				
Common Stock		02/04/2016			S		8	8,849(2)	D	D \$57.9337		1,388,183			D				
Common Stock												29		0,000		I	Hsing Fam Foundation		
Common Stock													133,040		I		by M Hsing 04 Trust		
		Та	ble II - Derivat (e.g., pເ							osed of, convertib				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date,	4. Transaction Code (Instr. 8)		5. Nur of Deriva Securi Acqui (A) or Dispo of (D) (Instr. and 5)	Expiration (Month/E) (Mont		ion D	Exercisable and on Date Day/Year)		e and int of ities rlying ative ity (Instr. 4)	o D S (I	B. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
				Code	v	(A)		Date Exercisa	able	Expiration Date	Title	Amour or Number of Shares	er						

Explanation of Responses:

- 1. On February 4, 2014, the reporting person was granted a target of 122,546 shares of restricted stock units subject to satisfaction of pre-determined, performance-based vesting criteria. On February 2, 2016, the Company's Board of Directors determined that those performance criteria for the restricted stock units had been satisfied, which resulted in 214,456 additional shares being achieved and granted to the reporting person. Of the restricted stock units that were awarded, 168,501 will vest immediately and 168,501 will vest quarterly in the next two years.
- 2. The reported sales were to cover taxes upon the vesting of restricted stock units, as required by the Company's equity incentive plans.

By: Saria Tseng For: Michael Hsing

02/04/2016

** 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.