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

Name and Address of Reporting Person* Hsing Michael					MOI	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]										able) r	ng Per	10% Ov	vner	
(Last) 79 GREA	(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 10/28/2016								X	Officer below)	(give title	Other (specify below)		specify	
(Street) SAN JOS (City)			25119 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									dividual or Joint/Group Filing (Check Applicable) Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	eI-N	lon-Deriv	ative S	Seci	uriti	es Acq	uired,	Disp	osed of,	or Be	enefic	ially	y Owned					
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				Exec if an	Deemed cution Date, y nth/Day/Year)		3. Transac Code (Ir 8)		4. Securiti Disposed and 5)			3, 4 Securities Beneficia Owned		es For ally (D)		: Direct	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A) (D)	or Pr	ice	Followin Reported Transact (Instr. 3	d tion(s)		. 4)	(Instr. 4)	
Common	Common Stock 10/28/2			10/28/20	16(1)				M ⁽¹⁾		26,817	1) 🖊	. \$	\$0.0 1,1		98,393		D		
Common Stock														133,040			I 1	by M Hsing 04 Trust		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
Derivative Conversion Date Ex- Security or Exercise (Month/Day/Year) if a			if any	emed ion Date, //Day/Year)	4. Transaction Code (Instr. 8)				6. Date Expirati (Month/	on D		7. Title and Amount of Securities Underlying Derivative Security (Ins and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
					Code	de V		(D)	Date Exercisable		Expiration Date	Title	Amo or Num of Shar	nber		Transaction(s (Instr. 4)				
Performance Shares	(1)	10/28/2016 ⁽¹⁾			M ⁽¹⁾			26,817 ⁽¹⁾	(1)		(1)	Commo Stock	n 26,8	317	\$0.0	111,92	16	D		

Explanation of Responses:

1. On December 31, 2015, the reporting person was granted a target of 138,743 shares of restricted stock units in four tranches subject to satisfaction of share price targets over the next four years. The vesting of restricted stock units in the second, third and fourth tranches is also subject to the satisfaction of certain operational goals, as determined by the Compensation Committee of the Company. All restricted stock units are subject to time based vesting. Once vested, one-third of shares have no sales restrictions and are sellable on January 1, 2020, one-third of the shares have sales restrictions until January 1, 2021 and one-third of the shares have sales restrictions until January 1, 2022. On October 28, 2016, the Compensation Committee of the Company determined that three of the five share price targets for the first tranche of restricted stock units had been satisfied, which resulted in 26,817 shares being granted, subject to time based vesting described above.

By: Saria Tseng For: Michael Hsing 11/01/2016

** 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.