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

Name and Address of Reporting Person* Hsing Michael						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR										plicable)	g Person(s) to	
(Last) 79 GREA	ast) (First) (Middle) 9 GREAT OAKS BLVD						3. Date of Earliest Transaction (Month/Day/Year) 02/15/2017									er (give title w)	Other (specify below)	
(Street) SAN JOSE CA 95119 (City) (State) (Zip)					4. If .	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
Table I - Non-Deriv 1. Title of Security (Instr. 3) 2. Transactio Date (Month/Day/Y						n 2A. Deemed Execution Date,			3. Transac Code (I 8)	tion	sposed of, or Benefi 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			or 5. Ai 4 and Secu Bend Own		nount of rities ficially	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D)	Price	Following Reported Transaction (Instr. 3 and		rted saction(s)	(Instr. 4)	(Instr. 4)
Common Stock				02/15/2017				J ⁽¹⁾		335	A	\$63	3.427	1,	222,014	D		
Common Stock				05/04/2017				S ⁽²⁾		8,634	D	\$91	.8931 1,		213,380	D		
Common Stock				05/05/20	2017				S ⁽²⁾		11,131	D	\$92	2.5542 1		202,249	D	
Common Stock															1	33,040	I	by M Hsing 04 Trust
		Та	ble	II - Derivat (e.g., pı							osed of, convertib				wned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exec if an	Deemed cution Date, y nth/Day/Year)	4. Transa Code (8)				Expira (Mont	ation [7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		of Deri Seci (Insi	Price rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr.	Beneficial Ownership
					Code	ode V		(D)	Date Exercisabl		Expiration Date	Title	Amour or Number of Shares					

Explanation of Responses:

- $1. \ Acquired \ through \ the \ Company's \ qualified \ ESPP \ program.$
- 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 <u>05/08/2017</u> Hsing

** 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.