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* Xiao Deming (Last) (First) (Middle) 79 GREAT OAKS BLVD					MO [MP	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 01/23/2017										all app Direct Offic below	plicable) ctor cer (give title		Person(s) to Issuer 10% Owner Other (specify below) ia Operations		
(Street) SAN JOS (City)			5119 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Indivine)	ridual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I - N	lon-Deriv	ative S	Secu	ıritie	s Acc	quired,	Dis	posed o	f, or	Bene	efici	ally	Owne	ed				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Dat				y/Year)	Execu	Deemed ution Date, / th/Day/Year)					ities Acquired (d Of (D) (Instr. 3			3, 4 S B		5. Amount of Securities Beneficially Owned		Ownership m: Direct or irect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount		(A) or (D)		•	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(111501.4)	
Common Stock 01/23/20				017)17			S ⁽¹⁾		12		D	\$87	.36	2,197			I	by Spouse		
Common Stock														272,390			D				
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																					
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution curity or Exercise (Month/Day/Year) if any			4. Transaction Code (Instr. 8)		of	r osed)	Expiration (Month/E	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr 3 and 4)			rice ivative urity tr. 5)	9. Number of derivative selectivative beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

1. 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: Deming <u>01/25/2017</u>

** 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.