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* Xiao Deming				MO	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR MONOLITHIC POWER SYSTEMS INC								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify				
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 02/12/2018							X	below	Officer (give title Ot below) be Pres. of MPS Asia Opera)	
(Street) SAN JOS (City)	AN JOSE CA 95119				4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv Line) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
(=:5)			e I - Non-Deriv	/ative 9	Seci	ırities <i>i</i>	Acau	ired. Di	isposed o	f. or B	Senefic	ially	Owne				
1. Title of Security (Instr. 3) 2. Trai Date (Monti				n 2A Ex ear) if a	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			or 5. Am 4 and 5) Secur Bene Owne		mount of irities eficially	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
						Cod	le V	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	(Instr. 4)		
Common Stock			02/12/201	8			S(1)	29,203	D	\$108.	1942	34	0,036	D		
Common Stock													1	,101	I	by Spouse	
		Та	ble II - Derivat (e.g., p						oosed of, convertib				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Numl of Derivati Securiti Acquire (A) or Dispose of (D) (Instr. 3 and 5)	ve (M es ed	. Date Exe expiration Month/Day		7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		8. Pr of Deri Secu (Inst	vative derivativativity Benefic Owned Following Reports	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					v	(A) (I		ete exercisable	Expiration Date	Title	Amoun or Number of Shares						

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>02/13/2018</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.