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						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									ship of Repor applicable) rector		10% C	Owner	
•	,	Middle)		3. Date of Earliest Transaction (Month/Day/Year) 05/18/2018										A be	elow)		Other (specify below)		
				4. If Amendment, Date of Original Filed (Month/Day/Year)										Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date					2A. Deemed Execution Date, if any (Month/Day/Year)							Sed Bei Ow	urities neficially ned	Fo (D	orm: Direct) or direct (I)	7. Nature of Indirect Beneficial Ownership			
								Code	v	Amount			Price	Re Tra	oorted nsaction(s)	(111	istr. 4)	(Instr. 4)	
Common Stock							S ⁽¹⁾		4,816	5	D	\$13	80	329,739		D			
Common Stock															1,101		I	by Spouse	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
le of ative Conversion or Exercise Price of Derivative Security A			Code (Ir 8)	nstr.	of Deriv Secu Acqu (A) o Dispo of (D (Instrand !	vative rities sired rosed) 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)			Amour		unt	Security	derivative Securities Beneficial Owned Following Reported	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
	(Fin AT OAKS B SE CA (Sta Security (Instal Stock Stock 2. Conversion or Exercise Price of Derivative	(First) (NAT OAKS BLVD EE CA 9 (State) (2 Tabl Security (Instr. 3) Stock Stock 2. Conversion or Exercise Price of Price of Price of Poerivative (Month/Day/Year)	(First) (Middle) AT OAKS BLVD SE CA 95119 (State) (Zip) Table I - N Security (Instr. 3) Stock Stock Table II 2. Conversion or Exercise Price of Derivative (Month/Day/Year) (Month/Day/Year)	(First) (Middle) AT OAKS BLVD (State) (Zip) Table I - Non-Deriv Security (Instr. 3) 2. Transact (Month/Da) Stock Table II - Derivat (e.g., ptops of the privator of Exercise Price of Derivative (Month/Day/Year) 3. Transaction Stock (Month/Day/Year) 2. (Month/Day/Year)	(First) (Middle) AT OAKS BLVD Table I - Non-Derivative Security (Instr. 3) Security (Instr. 3) 2. Transaction Date (Month/Day/Year) Stock Table II - Derivative Security (e.g., puts, cal 2. Conversion or Exercise Price of Perivative (Month/Day/Year) 3. Date (State) (Zip) 4. 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Date of Earliest Transaction (Month/Day/Year) X Officer (give title below) Pres. of MPS Asi	(First) (Middle) AT OARS BLVD Table 1 - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned Code V Amount (A) or Price Formerstellon(s) (Instr. 3) and 4) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Stock Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Stock Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Amount (A) or Price Formerstellon(s) (Instr. 3 and 4) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Stock Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Stock Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Stock Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Stock Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Stock Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned Stock Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (A) or Disposed of Owned (A) or Disposed of Owned (B) Indirect (I) (Instr. 4) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (C) or Disposed of Ownership Securities (Month/Day/Year) (Month/Day/Year) A Derivative Securities Acquired, Disposed of, or Beneficially Owned (C) or Disposed of Ownership Securities (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) A Derivative Securities Acquired, Disposed of, or Beneficially Owned (A) or Disposed of Ownership Securities (D) Ownership Securities (Month/Day/Year) (Month/Da	

Explanation of Responses:

1. Transaction was executed during an authorized trading window in compliance with the Company's Insider Trading Compliance Program.

By: Saria Tseng For: Deming <u>05/22/2018</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.