FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
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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	d Address of	Reporting Person*		2.	Issuer	Name	e and Ti	cker or T	rading	g Symbol						g Person(s) to	Issuer
Xiao Deming				MONOLITHIC POWER SYSTEMS INC [MPWR]								1		ctor		Owner	
(Last) (First) (Middle) 79 GREAT OAKS BLVD				3. Date of Earliest Transaction (Month/Day/Year) 05/04/2016									Officer (give title below) Pres. of MPS As		below	,	
(Street)						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)			
SAN JOSE CA 95119													X	Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(Sta		ip)														
Table I -			2. Transact Date (Month/Day	ion	2A. Deemed Execution Date,		3. Transaction Code (Instr.				red (A)	o) or 5. A Sec Ben Owr		nount of rities ficially	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	(A) or (D)	Price	•	Repo		(msu. 4)	(IIISU: 4)
Common Stock			05/04/2	05/04/2016						356	D	\$63	3.6203		97,740	D	
Common Stock			05/05/2	05/05/2016				S ⁽¹⁾	L	3,380	D	\$61.9033		294,360		D	
Common Stock			05/06/2	05/06/2016				S ⁽¹⁾		3,377	D	\$61	61.7001		90,983	D	
Common Stock															556	Ι	by Spouse
		Та	ble II - Deriva (e.g.,							osed of, convertib				wned	I		
Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year	Cod	Transaction Code (Instr		Number f erivative ecurities cquired \(\) or isposed f (D) nstr. 3, 4 and 5	Expira (Montl	tion [7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		of Der Sec (Ins	Price rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Cod	e V	(A	A) (D)	Date Exerci	sable	Expiration Date	Title	Amour or Number of Shares	er				

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>05/06/2016</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.