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

1. Name and Address of Reporting Person* Xiao Deming				2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR							IC	Relationship of Reporting Personal (Check all applicable) Director Officer (give title)			10% (Owner (specify
(Last) 79 GREA	Fir AT OAKS B	,	,				3. Date of Earliest Transaction (Month/Day/Year) 02/02/2016						below) Pres. of MPS Asi		below sia Operation	,
(Street) SAN JOSE CA 95119 (City) (State) (Zip)			4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
			e I - Non-Deriv	_				ed, Di					_			1
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Ye	ear) if a	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			4 and 5) Sec Ben Owr Foll Rep ce Trai		rities ficially d	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			rted action(s) . 3 and 4)			
Common	Stock		02/02/201	6			Α		102,322(1)) A	\$	0.0	3	61,646	D	
Common	Stock		02/04/201	6			S		25,277(2)	D	\$57.	9337	3:	36,369	D	
Common Stock		02/02/201	5			S ⁽²⁾		121 D \$6		\$61.	4733	475		I	by Spouse	
Common Stock		02/02/201	16			S		6(2)	D	\$6	\$61.48		469	I	by Spouse	
Common Stock			02/02/201	6		A		426(3)	A	\$	\$0.0		895	I	by Spouse	
		Та	ble II - Derivat (e.g., ρι						oosed of, convertib				wned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date E (Month/Day/Year) if	if any	4. Transac Code (I 8)		5. Numbor of Derivative Securitie Acquirect (A) or Disposed of (D) (Instr. 3, and 5)	6. Date Exe Expiration (Month/Day			7. Title Amoun Securiti Underly Derivati Security 3 and 4	t of ies ying ive y (Instr.	of Deri Seci (Ins	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities 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)
				Code	v	(A) (D)	Date Exer) rcisable	Expiration Date	Title	Amour or Numbe of Shares	er				

Explanation of Responses:

- 1. On February 4, 2014, the reporting person was granted a target of 37,208 shares of restricted stock units subject to satisfaction of pre-determined, performance-based vesting criteria. On February 2, 2016, the Company's Board of Directors determined that those performance criteria for the restricted stock units had been satisfied, which resulted in 65,114 additional shares being achieved and granted to the reporting person. Of the restricted stock units that were awarded, 51,161 will vest immediately and 51,161 will vest quarterly in the next two years.
- 2. The reported sales were to cover taxes upon the vesting of restricted stock units, as required by the Company's equity incentive plans.
- 3. 1/16 of the Restricted Stock Units shall vest quarterly following the Vesting Commencement Date, provided that the Grantee continues to be a Service Provider from the Grant Date through each applicable vesting date.

By: Saria Tseng For: Deming <u>02/04/2016</u>

** Signature of Reporting Person Da

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.