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 (Last) (First) (Middle)					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year)									tionship of Reporting all applicable) Director Officer (give title below)		10% (wner specify
79 GREAT OAKS BLVD					02/05/2016									Pres. of MPS Asia Operations			ns
(Street) SAN JOS (City)	E CA	5119 ² ïp)	4. If A	4. If Amendment, Date of Original Filed (Mor					iled (Month/E	Day/Year) 6. Indi Line) X			ridual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person		son		
			e I - Non-Deriv	vative S	Secu	irities	Ac	quire	d, Di	sposed o	f, or E	Benefic	ially	Owne	ed		
1. Title of S	Security (Ins	2. Transaction Date (Month/Day/Yo	ear) Exe	2A. Deemed Execution Date, if any (Month/Day/Year)		T C	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4			nd 5) Secu		ficially d	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						c	Code V		Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)		(1130.4)	(1130.4)	
Common	Stock	02/05/201	6				S ⁽¹⁾		814	D	\$61.2		335,555		D		
Common	Stock	02/08/201	6				S ⁽¹⁾		5,546	D	\$56.9551 ⁽²⁾		330,009		D		
Common Stock															895	Ι	by Spouse
	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)	Derivative Conversion Date Execution Date, Security or Exercise (Month/Day/Year) if any			4. Transaction Code (Instr. 8)		5. Numbe of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration (Month/Da) s			7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		8. Pr of Deri Secu (Inst	vative rity r. 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)
				Code	v	(A)	(D)	Date Exerc	cisable	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.

2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$56.9549 to \$56.9549 to \$56.9579. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

By: Saria Tseng For: Deming	02/09/2016
Xiao	02/09/2010
** 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.