FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPRO	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

							70(11) 01 1110			ompany Act	0						
Name and Address of Reporting Person*     Xiao Deming					MO	2. Issuer Name and Ticker or Trading Symbol  MONOLITHIC POWER SYSTEMS INC  MPWR  MPWR									plicable)	g Person(s) to 10% (	Issuer Owner
(Last) (First) (Middle) 79 GREAT OAKS BLVD				3. Date of Earliest Transaction (Month/Day/Year) 05/04/2017								X	Officer (give title below)  Pres. of MPS As		below	,	
(Street) SAN JOSE CA 95119					4. If Amendment, Date of Original Filed (Month/Day/Year)							· .	6. Indiv Line)	·			
(City)	(Sta	ate) (Z	(ip)											Form filed by More than One Reporting Person			
		Table	e I - No	on-Deriv	ative \$	Secu	ırities A	cquir	red, D	isposed o	f, or B	enefic	ially	Own	ed		
1. Title of Security (Instr. 3)			Da	2. Transaction Date (Month/Day/Yea		Execution Date,		3. Transaction Code (Instr. r) 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)					ficially ed	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
								Code	e V	Amount	(A) or (D)	Price		Repo Trans		(Instr. 4)	(Instr. 4)
Common Stock 05/				05/04/201	17			S <sup>(1</sup>	1)	2,623	D	\$91.	8931		95,457	D	
Common Stock 05/0				05/05/201	17			S <sup>(1)</sup>	1)	3,380	D	\$92.	5542 2		92,077	D	
Common Stock														1,131	I	by Spouse	
		Та	ble II -							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)	Execution if any	3A. Deemed Execution Date, if any (Month/Day/Year)		ction nstr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	Exp (Mo	Date Exe piration onth/Da		7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		of Deri Seci (Ins	· ·	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 Exercisable		Expiration Date	Title	Amount 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>05/08/2017</u>

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.