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]									neck all ap Dire	all applicable) Director		g Person(s) to Issuer 10% Owner Other (specif	
(Last) (First) (Middle) 79 GREAT OAKS BLVD					3. Date of Earliest Transaction (Month/Day/Year) 11/25/2016									A belo	Officer (give title below) Pres. of MPS As		below)		
(Street) SAN JOSE CA 95119 (City) (State) (Zip)				4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								Lin	e) X For For	l or Joint/Group Filing (Check Applicable rm filed by One Reporting Person rm filed by More than One Reporting rson				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, ') if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (Disposed Of (D) (Instr. 3 and 5)				Secu Bene Own	nount of rities ficially ed owing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	(A (D	.) or)	Price	Repo Tran		(IIISU. 4)	(11507. 4)	
Common Stock 11/25/2					016	16			S ⁽¹⁾		25		D	\$83.	.89 2,280		Ι		by Spouse
Common Stock														2	272,390				
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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execu if any	eemed tion Date, h/Day/Year)	4. Transac Code (I 8)		5. Nu of Deriv Secur Acqu (A) or Dispo of (D) (Instr and 5	rities ired r osed) :. 3, 4	Expiratio	Date Exercisable and xpiration Date Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		str.	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Own Forr Dire or Ir (I) (I 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Num of Shar	ber					

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 Xiao <u>11/29/2016</u>

<u>71100</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.