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 Reportin Xiao Deming (Last) (First) 79 GREAT OAKS BLVD (Street)	(Middle		2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 10/28/2016 4. If Amendment, Date of Original Filed (Month/Day/Year)							(Che	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) below) Pres. of MPS Asia Operations 6. Individual or Joint/Group Filing (Check Applicable Line)				oplicable		
SAN JOSE CA (City) (State)	9511! (Zip)											X Form filed by One Reporting Person Form filed by More than One Reporting Person					
	Table I -	Non-Deriv	ative S	Secu	uriti	es Acq	uired, l	Disp	osed of,	or Bei	neficial	y Owned	l				
1. Title of Security (Instr. 3)		2. Transact Date (Month/Day	/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Code (Instr.		4. Securities Acquired (Disposed Of (D) (Instr. 3 and 5)			Securitie Benefici Owned	es ally	Form (D) o	: Direct of E	7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount (A) or (D)		Price	Reported Transact	Following Reported Transaction(s) (Instr. 3 and 4)		. 4)	(Instr. 4)	
Common Stock 10/28/20		16(1)			M ⁽¹⁾		14,6280	1) A	\$0.0	285,845			D				
Common Stock										172				oy Spouse			
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
Security or Exercise (Month/Day/Year) if any		ution Date,	Code (Ins				6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title a Amount Securitie Underly Derivativ Security and 4)	of es ng	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)	Beneficial Ownership		
			Code	v	(A) (D)		Date Exercisable		Expiration Date	Title	or Number of Shares		(msu. 4)				
Performance Shares (1) 10/28/	2016 ⁽¹⁾		M ⁽¹⁾			14,628 ⁽¹⁾	(1)		(1)	Common Stock	14,628	\$0.0	61,05	0	D		

Explanation of Responses:

1. On December 31, 2015, the reporting person was granted a target of 75,678 shares of restricted stock units in four tranches subject to satisfaction of share price targets over the next four years. The vesting of restricted stock units in the second, third and fourth tranches is also subject to the satisfaction of certain operational goals, as determined by the Compensation Committee of the Company. All restricted stock units are subject to time based vesting. Once vested, one-third of shares have no sales restrictions and are sellable on January 1, 2020, one-third of the shares have sales restrictions until January 1, 2021 and one-third of the shares have sales restrictions until January 1, 2022. On October 28, 2016, the Compensation Committee of the Company determined that three of the five share price targets for the first tranche of restricted stock units had been satisfied, which resulted in 14,628 shares being granted, subject to time based vesting described above.

> By: Saria Tseng For: Deming 11/01/2016 Xiao

** 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.