FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
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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

Sciami (Last)	Mas Mau (Fii AT OAKS B	SLVD	Middle)		MOI [MP 3. Dat 10/28	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)								S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) below) Sr. V.P.of Sales and Marketing 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	eI-N	lon-Deriv	ative S	Seci	uriti	es Acq	uired,	Disp	osed of,	or Be	neficial	ly Owned					
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day				Execution Date,			3. Transaction Code (Instr. 8)		4. Securiti Disposed and 5)			5. Amou Securitie Benefici Owned Followir	es ally	Form (D) or Indire		7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Code	v	Amount	(A) o	r Price	Reporte Transac (Instr. 3	d tion(s)	(30. 4)			
Common Stock 10/28/20)16(1)				M ⁽¹⁾		14,628(1) A	\$0.0	347,190		D			
Common Stock														2,000			I 1	oy Family Γrust	
	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)	if any	emed ion Date, //Day/Year)	Code (In	ransaction ode (Instr.		umber derivative urities uired (A) disposed D) (Instr. and 5)	6. Date Expirati (Month/	on D			of es ing ve	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	m(s)			
Performance Shares	(1)	10/28/2016 ⁽¹⁾			M ⁽¹⁾	14,628(1)		(1)		(1)	Common Stock	14,628	\$0.0 61,050			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: Maurice Sciammas 11/01/2016

** 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.

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