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

Name and Address of Reporting Person* Sciammas Maurice				MC	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									all appl	licable) or	ing Pe	10% C	Owner
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD				3. Date of Earliest Transaction (Month/Day/Year) 04/13/2010								X	Officer (give title below) Sr. V.P.of Sale		Other (s below) es and Marketin			
(Street) SAN JOSE CA 95120			- 4. If -	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indi Line) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				son	
(City)	(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye		2A Exc ar) if a	2A. Deemed Execution Date		ite,	3. 4. Securities A		s Acquired (A) or f (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership			
							,	Code	v	Amount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)
Common Stock		04/13/201	0)			M ⁽¹⁾		20,000	A	\$1.2	2	90	0,741		D		
Common	Stock		04/13/201	0				S ⁽¹⁾		20,000	D	\$23.50	87(2)	70	,741		D	
Common Stock													95	95,934		I .	by Family Trust ⁽³⁾	
Common Stock														24	.,671		I	byC Sciammas 04 TRST ⁽⁴⁾
Common Stock												24,671			I	byM Sciammas 04 Trst ⁽⁵⁾		
	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	Date	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactio Code (Inst 8)		5. Numb		6. Dat Expir (Mont		rcisable and Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. of De Se (In	Price erivative curity str. 5)	9. Number derivative Securities Securities Owned Following Reported Transactio (Instr. 4)	ly D (I	10. Ownership Form: Direct (D) Or Indirect (I) (Instr. 4)	Beneficial Ownership
				Code	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amour or Number of Shares	er					
Incentive Stock Option (right to buy)	\$1.2	04/13/2010		M ⁽¹⁾			20,000	09/10)/2004	09/11/2013	Commo Stock	n 20,00	00	\$0	10,000)	D	

Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 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 \$23.50 to \$23.535. 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.
- 3. Shares held by Sciammas Family Living Trust, Maurice Sciammas and Christina Sciammas, Trustees
- 4. Shares held by Christina Sciammas 2004 Trust, Christina Sciammas and Maurice Sciammas, Trustees
- 5. Shares held by Maurice Sciammas 2004 Trust, Maurice Sciammas and Christina Sciammas, Trustees

** 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.