

FORM 3**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**OMB APPROVAL**

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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* <u>Sciammas Maurice</u>	2. Date of Event Requiring Statement (Month/Day/Year) <u>04/25/2006</u>	3. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC [MPWR]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director _____ 10% Owner _____ <input checked="" type="checkbox"/> Officer (give title below) <u>VP, Sales and Marketing</u> Other (specify below) _____	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person
(Last) (First) (Middle) <u>983 UNIVERSITY AVENUE, BUILDING A</u>			
(Street) <u>LOS GATOS CA 95032</u>			
(City) (State) (Zip)			

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	17,762 ⁽¹⁾	D	
Common Stock	257,574	I	by Family Trust ⁽²⁾
Common Stock	42,647	I	byC Sciammas 04 TRST ⁽³⁾
Common Stock	42,647	I	byM Sciammas 04 Trst ⁽⁴⁾

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Incentive Stock Option (right to buy)	07/15/2003 ⁽⁵⁾	07/17/2012	Common Stock	82,000	1.2	D	
Incentive Stock Option (right to buy)	09/10/2004 ⁽⁶⁾	09/11/2013	Common Stock	60,000	1.2	D	
Incentive Stock Option (right to buy)	01/26/2006 ⁽⁷⁾	01/26/2015	Common Stock	21,206	7.77	D	
Incentive Stock Option (right to buy)	06/15/2006 ⁽⁸⁾	06/15/2015	Common Stock	20,317	9.32	D	
Non-Qualified Stock Option (right to buy)	01/26/2006 ⁽⁷⁾	01/26/2015	Common Stock	2,794	7.77	D	
Non-Qualified Stock Option (right to buy)	06/15/2006 ⁽⁸⁾	06/15/2015	Common Stock	79,683	9.32	D	

Explanation of Responses:

- Includes 15,000 shares of RSA granted on 2/7/06; 7500 shares vest on 2/17/07 and 7500 shares vest on 2/17/08 provided that the Purchaser continues to be a Service Provider on such dates.
- Shares held by Sciammas Family Living Trust, Maurice Sciammas and Christina Sciammas, Trustees
- Shares held by Christina Sciammas 2004 Trust, Christina Sciammas and Maurice Sciammas, Trustees
- Shares held by Maurice Sciammas 2004 Trust, Maurice Sciammas and Christina Sciammas, Trustees
- Total of 82,000 shares granted on 7/17/02, 25% exercisable on 7/15/03; the remaining shares vest at a rate of 1/48 per month thereafter.
- Total of 60,000 shares granted on 9/11/03, 25% exercisable on 9/10/04; the remaining shares vest at a rate of 1/48 per month thereafter.
- Total of 24,000 shares granted on 1/26/05, 25% exercisable on 1/26/06; the remaining shares vest at a rate of 1/48 per month thereafter.
- Total of 100,000 shares granted on 6/15/05, 25% exercisable on 6/15/06; the remaining shares vest at a rate of 1/48 per month thereafter.

Maurice Sciammas05/01/2006

** 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 5 (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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