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* Ueunten Paul				<u>N</u>	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									Check	all appl Direct	•	ng Pers	son(s) to Is 10% Ov Other (s	wner
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD				3. Date of Earliest Transaction (Month/Day/Year) 07/13/2009									X	below)	n Eng	below) 1 Engineering		
(Street) SAN JOSE CA 95120 (City) (State) (Zip)			- 4. -	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Indiv Line) X	idual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date			2. Transactio Date (Month/Day/	- 1	2A. Deemed Execution Date, if any (Month/Day/Year)		- 1	3. Transac Code (Ir 8)	tion ıstr.	4. Securities Disposed O		and 5) Securi Benef Owner		icially	6. Ownership Form: Direct (D) or Indirect (I)	: Direct	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		07/13/20	09					M ⁽¹⁾		23,271	A	\$7.7	.77		1,366		D		
Common Stock 07		07/13/20	09	9				S ⁽¹⁾	Ш	23,271	D	\$23.50	076 ⁽²⁾ 58,		8,095	D			
Common Stock													153,556		3,556	I		Ueunten Trust I	
Common Stock														123,900				Ueunten Trust II	
Common Stock															30	0,550			Ueunten Trust III
Common Stock														30	30,550			Ueunten Trust IV	
		Ta	able II - Deriv								posed of, converti				wned		,		
Derivative Conversion Date		3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Tran Cod	ransactio		5. Numbe		6. Date Exer Expiration I (Month/Day		cisable and Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. F of Der Sec	Price ivative surity str. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y D (I	0. Ownership orm: Direct (D) r Indirect) (Instr.	Beneficial Ownership
				Cod	e	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	Amour or Numbe of Shares	er					
Incentive Stock Option (right to buy)	\$7.77	07/13/2009		M ⁽	(1)			23,27	01/26	/2006	01/26/2015	Common Stock	23,27	1	\$0	0		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 \$23.13 to \$23.67. 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.

By: Rick Neely For: Paul <u>Ueunten</u>

07/13/2009

** Signature of Reporting Person

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.