FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
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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 (Last) (First) (Middle) 6409 GUADALUPE MINES ROAD (Street)					MON [MP' 3. Date 02/01	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 02/01/2011 4. If Amendment, Date of Original Filed (Month/Day/Year)								(Che	6. Individual or Joint/Gro Line)		10% (Other below n Engineerin	Owner (specify) g Applicable
SAN JOS (City)			5120 Zip)											Form	Form filed by More than One Reporting Person			
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date				2. Transact Date (Month/Day	ey/Year) Exc		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (Disposed Of (D) (Instr. 3 and 5)				Secur Benef Owne	ficially ed	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership
								Code	v	Amount	(A)	or F	Price			(Instr. 4)	(Instr. 4)	
Common	Stock			02/01/2	011				S		1,588(1]	D S	\$14.63	8	4,527	D	
Common	Stock														1:	53,556	I	Ueunten Trust I
Common Stock															1:	23,900	I	Ueunten Trust II
Common Stock													30,		0,550	I	Ueunten Trust III	
Common Stock													30,550		I	Ueunten Trust IV		
	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)	Title of Derivative Security Security 1. Title of Conversion or Exercise Price of Derivative Security 1. Title of Conversion Date (Month/Day/Year) 1. Title of Conversion Date (Month/Day/Year) 1. Title of Conversion Date (Month/Day/Year) 2.		4. Transac Code (Ir 8)				6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amount or Number of Title Shares		8. o D S (I	Price f erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Saria Tseng For: Paul <u>Ueunten</u>

02/01/2011

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

 $^{^{\}star}$ 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).