

ARROW ELECTRONICS INC  
Form SD  
May 31, 2016

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM SD  
Specialized Disclosure Report

ARROW ELECTRONICS, INC.  
(Exact name of registrant as specified in its charter)

New York 1-4482 11-1806155  
(State or other jurisdiction of (Commission (I.R.S. Employer  
incorporation or organization) File Number) Identification Number)

9201 East Dry Creek Road, Centennial, Colorado 80112  
(Address of principal executive offices) (Zip Code)

Gregory Tarpinian  
Senior V.P., General Counsel and Secretary  
(303) 824-3753  
(name and telephone number, including area code,  
of the person to contact in connection with this report)

Check the appropriate box to indicate the rule pursuant to which this form is being filed, and provide the period to which the information in this form applies:

Rule 13p-1 under the Securities Exchange Act (17CFR240.13p-1) for the reporting period from January 1 to December 31, 2015.

#### Introduction

Arrow Electronics, Inc. is filing this Form SD as required by Rule 13p-1 (“Conflict Minerals Rule”) under the Securities Exchange Act of 1934.

Arrow Electronics is a global provider of products, services and solutions to industrial and commercial users of electronic components and enterprise computing solutions. The information contained in this specialized disclosure report pertains to the products that have been assembled or modified (“manufactured”) by Arrow or one of its subsidiaries or business units: Global Lighting and Assembly; AePetsche Wire Preparation; AePetsche, North American Components, and European Components Connector Assembly; Power Supply Production Services; OEM Computing Solutions (OCS) Integration; Component Modification Services; Enterprise Computing Solutions (ECS), ATM, PEI-Genesis, Seneca, UR Group, and CPN/Denelex (collectively “Arrow” or the “Company”). Some of the products assembled and modified contain columbite-tantalite, cassiterite, wolframite, or gold, or their derivatives tin, tantalum, and tungsten, which are necessary to the functionality or production of the product (“Conflict Minerals<sup>1</sup>”).

<sup>1</sup> Note, the term “Conflict Minerals” refers to the named minerals and their derivatives. It does not infer that the procurement of such minerals or derivatives directly or indirectly financed or benefited armed groups in the DRC, Angola, Burundi, Central African Republic, Congo Republic, Rwanda, Sudan, Tanzania, Uganda, and Zambia. In

accordance with Rule 13p-1, minerals that originated in the DRC or adjoining country, and financed or benefited armed groups are deemed “Not Conflict Free.”

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## Section 1 - Conflict Minerals Disclosures

### Item 1.01 Conflict Minerals Disclosure and Report

#### Products Manufactured Using Conflict Minerals

In 2015, Arrow assembled or modified the following products: surface mount and leaded electronic components, including capacitors (aluminum electrolytic, tantalum electrolytic, ceramic, film and double layer- EDLC), resistors (thick film, thin film, current sensing and arrays), thermistors, varistors, inductors (metal composite, wire wound and MLI), ferrite chip beads, fuses and diodes; flat panel and touch screens, servers, personal computers and workstations, hard drives, motherboards, and kiosks; power supplies used in medical, telecom and industrial devices, modified headers, and flex strips; circular and rectangular connectors, and bundles of wire used to assemble sophisticated, high reliability electrical harnesses commonly used in aerospace, defense and other high reliability applications; and lighting assemblies used in street lights, stadiums, homes, and emergency vehicles (the “Products”). The Company determined that some of the Products contain Conflict Minerals.

#### Process to Identify the Country of Origin, Chain of Custody, and Facilities Used to Process the Minerals

Arrow does not directly purchase any Conflict Minerals from any source and does not knowingly procure any product containing Conflict Minerals from the “Covered Countries.” Arrow obtains all of the products it assembles and modifies from more than 870 suppliers. In 2015, Arrow manufactured the Products at its facilities in Reno, Nevada; Phoenix, Arizona; Solon, Ohio; Sunrise, Florida; Southaven, Mississippi; Nogales, Mexico; Viby, Denmark; Harrogate, United Kingdom; Cordoba, Spain; and Venlo, The Netherlands.

To develop its process to identify the country of origin and chain of custody of the Conflict Minerals, Arrow utilized the internationally recognized framework “OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas” (“OECD framework”).

Arrow utilized a risk-based approach to identify the suppliers of the parts used in the Products that are likely to contain Conflict Minerals and in accordance with the OECD framework conducted in good faith a reasonable country of origin inquiry. Arrow used Silicon Expert, a sophisticated components database and service provider, to request that each supplier provide the country of origin and chain of custody of the Conflict Minerals contained in the parts they supplied to Arrow. Suppliers were requested to respond with a completed Electronic Industry Citizenship Coalition “EICC-GeSI Due Diligence Request Template.”

#### Country of Origin Results

The Company performed its due diligence in accordance with the OECD framework. The Company used the EICC published Conflict-Free Smelter Program list to identify red flags with respect to the named country of origin and smelter list. The information received from the suppliers was reviewed for completeness and when necessary, Arrow conducted subsequent inquiries to get obtain additional information. However, despite this follow-up, in many instances, suppliers were unable to provide to the country of origin and or a smelter list.

At this time, the Company has no reason to believe that the information provided by the suppliers was unreliable or inaccurate. The following table is a list of smelters, provided to Arrow by its suppliers, of components used in the Products manufactured by Arrow in 2015.

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<sup>2</sup>. “Covered Countries” include the Democratic Republic of the Congo, Angola, Burundi, the Central African Republic, The Republic of Congo, Uganda, Rwanda, South Sudan, Tanzania and Zambia.

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| Substance Name | Smelter Name  | Smelter Location     |
|----------------|---|----------------------|
| Gold (Au)      | ABC   | ALBANIA              |
| Gold (Au)      | Abington Reldan Metals, LLC.                                  | UNITED STATES        |
| Gold (Au)      | Acade Noble Metal (Zhao Yuan) Corporation                     | CHINA                |
| Gold (Au)      | Advanced Chemical Company                                     | UNITED STATES        |
| Gold (Au)      | AGR Mathey  | AUSTRALIA            |
| Gold (Au)      | Aida Chemical Industries Co., Ltd.                            | JAPAN                |
| Gold (Au)      | AIM   | CANADA               |
| Gold (Au)      | Aktobe  | KAZAKHSTAN           |
| Gold (Au)      | Aktyubinsk Copper Company TOO                                 | KAZAKHSTAN           |
| Gold (Au)      | Al Etihad Gold Refinery DMCC                                  | UNITED ARAB EMIRATES |
| Gold (Au)      | Allgemeine Gold-und Silberscheideanstalt A.G.                 | GERMANY              |
| Gold (Au)      | Almalyk Mining and Metallurgical Complex (AMMC)               | UZBEKISTAN           |
| Gold (Au)      | Alpha   | KOREA, UNITED STATES |
| Gold (Au)      | Amalgamet Inc   | PERU                 |
| Gold (Au)      | AngloGold Ashanti Córrego do Sítio Mineração                  | BRAZIL               |
| Gold (Au)      | Anhui Tongling Nonferrous Metal Mining Co., Ltd.              | CHINA                |
| Gold (Au)      | ANZ   | AUSTRALIA            |
| Gold (Au)      | ANZ Banking   | AUSTRIA              |
| Gold (Au)      | Argor-Heraeus SA  | SWITZERLAND          |
| Gold (Au)      | Argor-Heraeus, HONG KONG                                      | HONG KONG            |
| Gold (Au)      | Asahi Pretec Corporation                                      | JAPAN                |
| Gold (Au)      | Asahi Refining Canada Limited                                 | CANADA               |
| Gold (Au)      | Asahi Refining USA Inc.                                       | UNITED STATES        |
| Gold (Au)      | Asaka Riken Co., Ltd.   | JAPAN                |
| Gold (Au)      | Atasay Kuyumculuk Sanayi Ve Ticaret A.S.                      | TURKEY               |
| Gold (Au)      | Atotech   | GERMANY              |
| Gold (Au)      | Audiua, Escardida   | CHILE                |
| Gold (Au)      | Aurubis AG  | GERMANY              |
| Gold (Au)      | AXIS MATERIAL LIMITED   | JAPAN                |
| Gold (Au)      | Bangko Sentral ng Pilipinas (Central Bank of the Philippines) | PHILIPPINES          |
| Gold (Au)      | Bangkok Assay   | THAILAND             |
| Gold (Au)      | Bank of Switzerland   | SWITZERLAND          |
| Gold (Au)      | Batu Hijau Gold/Copper Mining                                 | INDONESIA            |
| Gold (Au)      | Bauer Walser AG   | GERMANY              |
| Gold (Au)      | Best Metais e Soldas SA                                       | BRAZIL               |
| Gold (Au)      | Boliden AB  | SWEDEN               |
| Gold (Au)      | Boston Metal  | KOREA                |
| Gold (Au)      | BR Industries   | INDIA                |
| Gold (Au)      | Butterworth Smelter   | MALAYSIA             |
| Gold (Au)      | C. Hafner GmbH + Co. KG                                       | GERMANY              |
| Gold (Au)      | Caridad   | MEXICO               |

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|           |  |                    |
|-----------|--|--------------------|
| Gold (Au) | CCR Refinery - Glencore Canada Corporation | CANADA             |
| Gold (Au) | Cendres + Métaux SA                        | SWITZERLAND        |
| Gold (Au) | CHALCO Yunnan Copper Co. Ltd.              | CHINA              |
| Gold (Au) | Changsha South Tantalum Niobium Co., Ltd.  | CHINA              |
| Gold (Au) | Cheng Yang                                 | TAIWAN             |
| Gold (Au) | Chengfeng Metals Co Pte Ltd                | CHINA              |
| Gold (Au) | CHENGGONG TECHNOLOGY CO.,LTD.              | UZBEKISTAN         |
| Gold (Au) | Chimet S.p.A.                              | ITALY              |
| Gold (Au) | China Rare Metal Materials Company         | CHINA              |
| Gold (Au) | China Tin Group Co., Ltd.                  | CHINA              |
| Gold (Au) | Chugai Mining                              | JAPAN              |
| Gold (Au) | CNMC (Guangxi) PGMA Co., Ltd.              | CHINA              |
| Gold (Au) | Conghua Tantalum and Niobium Smeltry       | CHINA              |
| Gold (Au) | Cookson Group                              | SPAIN              |
| Gold (Au) | Cooper Santa                               | BRAZIL             |
| Gold (Au) | CV Serumpun Sebalai                        | INDONESIA          |
| Gold (Au) | Daejin Indus Co., Ltd.                     | SOUTH KOREA        |
| Gold (Au) | Daye Nonferrous Metals Mining Ltd.         | CHINA              |
| Gold (Au) | Dayu Weiliang Tungsten Co., Ltd.           | CHINA              |
| Gold (Au) | Do Sung Corporation                        | KOREA, REPUBLIC OF |
| Gold (Au) | Doduco GmbH                                | GERMANY            |
| Gold (Au) | Dowa                                       | JAPAN              |
| Gold (Au) | DSC (Do Sung Corporation)                  | KOREA              |
| Gold (Au) | Eco-System Recycling Co., Ltd.             | JAPAN              |

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|           |  |                      |
|-----------|--|----------------------|
| Gold (Au) | Elemetal Refining, LLC   | UNITED STATES        |
| Gold (Au) | EM Vinto   | BOLIVIA              |
| Gold (Au) | Emirates Gold DMCC   | UNITED ARAB EMIRATES |
| Gold (Au) | Empresa Metallurgica Vinto, Empresa ciol de Fundiciones (EF), Complejo Metalurico Vinto S.A. | BOLIVIA              |
| Gold (Au) | Engelhard London   | UNITED KINGDOM       |
| Gold (Au) | ERCEI  | FRANCE               |
| Gold (Au) | Estanho de Rondônia S.A.   | BRAZIL               |
| Gold (Au) | Ethiopian Minerals Development Share Company   | ETHIOPIA             |
| Gold (Au) | F&X Electro-Materials Ltd.   | CHINA                |
| Gold (Au) | Faggi Enrico S.p.A.  | ITALY                |
| Gold (Au) | Feinhütte Halsbrücke GmbH  | GERMANY              |
| Gold (Au) | Fenix Metals   | POLAND               |
| Gold (Au) | Fidelity Printers and Refiners Ltd.  | ZIMBABWE             |
| Gold (Au) | FSE Novosibirsk Refinery   | RUSSIA               |
| Gold (Au) | Fujian Jinxin Tungsten Co., Ltd.   | CHINA                |
| Gold (Au) | Gansu Seemine Material Hi-Tech Co., Ltd.   | CHINA                |
| Gold (Au) | Ganzhou Seadragon W & Mo Co., Ltd.   | CHINA                |
| Gold (Au) | Gauteng refinery   | SOUTH AFRICA         |
| Gold (Au) | Geib Refining Corporation  | UNITED STATES        |

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|-----------|---|---|
| Gold (Au) | Gejiu Zili Mining And Metallurgy Co., Ltd.                            | CHINA   |
| Gold (Au) | Global Tungsten & Powders Corp.                                       | UNITED STATES                                       |
| Gold (Au) | Gold Mining in Shandong (Laizhou) Limited Company                     | CHINA   |
| Gold (Au) | Great Wall Precious Metals Co., Ltd. of CBPM                          | CHINA   |
| Gold (Au) | Guangdong Gaoyao Co   | CHINA   |
| Gold (Au) | Guangdong Xianglu Tungsten Industry Co., Ltd.                         | CHINA   |
| Gold (Au) | Guoda Safina High-Tech Environmental Refinery Co., Ltd.               | CHINA   |
| Gold (Au) | H. DRIJFHOUT & ZOON-AMSTERDAM-MELTERS (within octagon)                | NETHERLANDS   |
| Gold (Au) | Hangzhou Fuchunjiang Smelting Co., Ltd.                               | CHINA   |
| Gold (Au) | Heimerle + Meule GmbH   | GERMANY   |
| Gold (Au) | Henan Zhongyuan Gold Smelter of Zhongjin Gold Co. Ltd.                | CHINA   |
| Gold (Au) | Heraeus Ltd. Hong Kong  | HONG KONG, TAIWAN, GERMANY, SINGAPORE, KOREA, CHINA |
| Gold (Au) | Heraeus Materials Singapore Pte, Ltd.                                 | SINGAPORE   |
| Gold (Au) | Heraeus Precious Metals GmbH & Co. KG                                 | CHINA, GERMANY                                      |
| Gold (Au) | Huichang Jinshunda Tin Co., Ltd.                                      | CHINA   |
| Gold (Au) | Hunan Chenzhou Mining Co., Ltd.                                       | CHINA   |
| Gold (Au) | Hwasung CJ Co., Ltd.  | KOREA, REPUBLIC OF                                  |
| Gold (Au) | Inner Mongolia Qiankun Gold and Silver Refinery Share Company Limited | CHINA   |
| Gold (Au) | Ishifuku Metal Industry Co., Ltd.                                     | JAPAN   |
| Gold (Au) | Istanbul Gold Refinery  | TURKEY  |
| Gold (Au) | Japan Mint  | JAPAN   |
| Gold (Au) | JCC   | CHINA   |
| Gold (Au) | Jiangxi Tungsten Industry Group Co Ltd                                | CHINA   |
| Gold (Au) | JiuJiang JinXin Nonferrous Metals Co., Ltd.                           | CHINA   |

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|              |  |                              |
|--------------|--|------------------------------|
| Gold<br>(Au) | Johnson Matthey Limited                            | CHINA, UNITED STATES, CANADA |
| Gold<br>(Au) | JSC "Aurat"  | RUSSIA                       |
| Gold<br>(Au) | JSC Ekaterinburg Nonferrous Metal Processing Plant | RUSSIA                       |
| Gold<br>(Au) | JSC Uralelectromed                                 | RUSSIA                       |
| Gold<br>(Au) | JX Nippon Mining & Metals Co., Ltd.                | JAPAN                        |
| Gold<br>(Au) | K.A Rasmussen as                                   | NORWAY                       |
| Gold<br>(Au) | Kai Unita Trade Limited Liability Company          | CHINA                        |
| Gold<br>(Au) | Kaloti Precious Metals                             | UNITED ARAB EMIRATES         |
| Gold<br>(Au) | Kazakhmys Smelting LLC                             | KAZAKHSTAN                   |
| Gold<br>(Au) | Kazzinc  | KAZAKHSTAN                   |
| Gold<br>(Au) | Kennametal Fallon                                  | UNITED STATES                |
| Gold<br>(Au) | Kennecott Copper Utah                              | UNITED STATES                |
| Gold<br>(Au) | KGHM Polska MiedŹ Spó³ka Akcyjna                   | POLAND                       |
| Gold<br>(Au) | Kojima Chemicals Co., Ltd.                         | JAPAN                        |
| Gold<br>(Au) | Korea Metal Co., Ltd.                              | KOREA                        |

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| Gold (Au) Korea Zinc Co. Ltd.   | KOREA, REPUBLIC OF       |
| Gold (Au) KOVOHUTÌ PŔÍBRAM NÁSTUPNICKÁ, A.S.                          | CZECH REPUBLIC           |
| Gold (Au) Kyrgyzaltyn JSC   | KYRGYZSTAN               |
| Gold (Au) L' azurde Company For Jewelry                               | SAUDI ARABIA             |
| Gold (Au) Lingbao Gold Company Limited                                | CHINA                    |
| Gold (Au) Lingbao Jinyuan Tonghui Refinery Co., Ltd.                  | CHINA                    |
| Gold (Au) Linqu Xianggui Smelter Co. Ltd.                             | CHINA                    |
| Gold (Au) LS-NIKKO Copper Inc.  | REPUBLIC OF KOREA, CHILE |
| Gold (Au) Luoyang Zijin Yinhui Gold Refinery Co., Ltd.                | CHINA                    |
| Gold (Au) Malaysia Smelting Corporation (MSC)                         | MALAYSIA                 |
| Gold (Au) Materion  | UNITED STATES            |
| Gold (Au) Matsuda Sangyo Co., Ltd.                                    | JAPAN                    |
| Gold (Au) Mentok Smelter  | INDONESIA                |
| Gold (Au) Metahub Industries Sdn. Bhd.                                | MALAYSIA                 |
| Gold (Au) METALÁŠRGICA MET-MEX PEÁ‘OLES, S.A. DE C.V                  | MEXICO                   |
| Gold (Au) Metallic Resources Inc                                      | UNITED STATES            |
| Gold (Au) Metallo Chimique  | BELGIUM                  |
| Gold (Au) Metalor HK  | CHINA                    |
| Gold (Au) Metalor Switzerland   | SWITZERLAND              |
| Gold (Au) Metalor Technologies (Singapore) Pte., Ltd.                 | SINGAPORE                |
| Gold (Au) Metalor Technologies (Suzhou) Ltd.                          | CHINA                    |
| Gold (Au) Metalor USA Refining Corporation                            | UNITED STATES            |
| Gold (Au) Metalúrgica Met-Mex Peñoles S.A. De C.V.                    | MEXICO                   |
| Gold (Au) Mineração Taboca S.A.                                       | BRAZIL                   |
| Gold (Au) Minsur S.A. Tin Metal                                       | PERU                     |
| Gold (Au) Mitsubishi Materials Corporation                            | TAIWAN, JAPAN            |
| Gold (Au) Mitsui kinzoku Co Ltd takehara seirenjyo                    | JAPAN                    |
| Gold (Au) Mitsui Mining & Smelting                                    | JAPAN                    |
| Gold (Au) MK Electron   | KOREA, REPUBLIC OF       |
| Gold (Au) MMTC-PAMP India Pvt., Ltd.                                  | INDIA                    |
| Gold (Au) Morris and Watson   | NEW ZEALAND              |
| Gold (Au) Moscow Special Alloys Processing Plant                      | RUSSIA                   |
| Gold (Au) Nadir Metal Rafineri San. Ve Tic. A. <sup>a</sup> .         | TURKEY                   |
| Gold (Au) Navoi Mining and Metallurgical Combinat                     | UZBEKISTAN               |
| Gold (Au) NGHE TIN Nonferrous METAL                                   | VIETNAM                  |
| Gold (Au) NMC   | PHILIPPINES              |
| Gold (Au) Ögussa Österreichische Gold- und Silber-Scheideanstalt GmbH | AUSTRIA                  |
| Gold (Au) Ohura Precious Metal Industry Co., Ltd.                     | JAPAN                    |
| Gold (Au) OJSC Kolyma Refinery  | RUSSIA                   |
| Gold (Au) OJSC Krastvetmett   | RUSSIA                   |
| Gold (Au) PAMP SA   | SWITZERLAND              |
| Gold (Au) Penglai Penggang Gold Industry Co., Ltd.                    | CHINA                    |
| Gold (Au) PJ-USA  | AMERICAN SAMOA           |

|   |                                     |
|---|-------------------------------------|
| Gold (Au) Prioksky Plant of Nonferrous Metals                     | RUSSIA                              |
| Gold (Au) PT Aneka Tambang (Persero) Tbk                          | INDONESIA                           |
| Gold (Au) PT Artha Cipta Langgeng                                 | INDONESIA                           |
| Gold (Au) PT DS Jaya Abadi  | INDONESIA, JAPAN                    |
| Gold (Au) PT Fang Di MulTindo                                     | INDONESIA                           |
| Gold (Au) PT Stanindo Inti Perkasa                                | INDONESIA                           |
| Gold (Au) PT Tambang Timah  | INDONESIA                           |
| Gold (Au) PT Timah Nusantara                                      | INDONESIA                           |
| Gold (Au) PT Tinindo Inter Nusa                                   | INDONESIA                           |
| Gold (Au) PX Précinox SA  | SWITZERLAND                         |
| Gold (Au) Rand Refinery (Pty) Ltd.                                | SOUTH AFRICA                        |
| Gold (Au) Republic Metals Corporation                             | UNITED STATES                       |
| Gold (Au) Royal Canadian Mint                                     | CANADA                              |
| Gold (Au) rui sheng   | INDONESIA, MALAYSIA                 |
| Gold (Au) SAAMP   | FRANCE                              |
| Gold (Au) Sabin Metal Corp.                                       | UNITED STATES                       |
| Gold (Au) Samduck Precious Metals                                 | KOREA, REPUBLIC OF                  |
| Gold (Au) SAMWON Metals Corp.                                     | KOREA                               |
| Gold (Au) SAXONIA Edelmetalle GmbH                                | GERMANY                             |
| Gold (Au) SD (Samdok) Metal                                       | KOREA                               |
| Gold (Au) Shandong Tiancheng Biological Gold Industrial Co., Ltd. | CHINA                               |
| Gold (Au) Shonan Plant Tanaka Kikinzoku                           | JAPAN                               |
| Gold (Au) Sichuan Tianze Precious Metals Co., Ltd.                | CHINA                               |
| Gold (Au) Singway Technology Co., Ltd.                            | TAIWAN                              |
| Gold (Au) So Accurate Refining Group                              | UNITED STATES                       |
| Gold (Au) SOE Shyolkovsky Factory of Secondary Precious Metals    | RUSSIA                              |
| Gold (Au) Soft Metais Ltda.                                       | BRAZIL                              |
| Gold (Au) Solar Applied Materials Technology Corp.                | CHINA, TAIWAN                       |
| Gold (Au) Sudan Gold Refinery                                     | SUDAN                               |
| Gold (Au) Sumitomo Kinzoku Kozan K.K.                             | JAPAN                               |
| Gold (Au) Sumitomo Metal Mining Co., Ltd.                         | CHINA, JAPAN, UNITED STATES, CANADA |
| Gold (Au) T.C.A S.p.A   | ITALY                               |
| Gold (Au) Taki Chemicals  | JAPAN                               |
| Gold (Au) Tanaka  | JORDAN                              |
| Gold (Au) Tejing (Vietnam) Tungsten Co., Ltd.                     | VIETNAM                             |
| Gold (Au) Telex Metals  | UNITED STATES                       |
| Gold (Au) Thailand Smelting & Refining Co Ltd                     | THAILAND                            |
| Gold (Au) Tokuriki Honten Co., Ltd.                               | JAPAN                               |
| Gold (Au) Tony Goetz NV   | BELGIUM                             |
| Gold (Au) Torecom   | KOREA, REPUBLIC OF                  |
| Gold (Au) Umicore Brasil Ltda.                                    | BRAZIL                              |
| Gold (Au) Umicore Precious Metals Thailand                        | THAILAND                            |
| Gold (Au) Umicore SA Business Unit Precious Metals Refining       | BELGIUM                             |
| Gold (Au) United Precious Metal Refining, Inc.                    | UNITED STATES                       |
| Gold (Au) Valcambi SA   | SWITZERLAND                         |

|               |   |                        |
|---------------|---|------------------------|
| Gold (Au)     | VQB MINERAL AND TRADING GROUP JOINT STOCK COMPANY             | JAPAN                  |
| Gold (Au)     | W.C. Heraeus GmbH   | GERMANY, UNITED STATES |
| Gold (Au)     | White Solder Metalurgia e Mineraçao Ltda.                     | BRAZIL                 |
| Gold (Au)     | WIELAND Edelmetalle GmbH                                      | GERMANY                |
| Gold (Au)     | Wolfram Bergbau und Hütten AG                                 | AUSTRIA                |
| Gold (Au)     | Xiamen Tungsten (H.C.) Co., Ltd.                              | CHINA                  |
| Gold (Au)     | Yamamoto Precious Metal Co., Ltd.                             | JAPAN                  |
| Gold (Au)     | Yichun Jin Yang Rare Metal Co., Ltd.                          | CHINA                  |
| Gold (Au)     | Yokohama Metal Co., Ltd.                                      | JAPAN                  |
| Gold (Au)     | Yoo Chang Metal   | SOUTH KOREA            |
| Gold (Au)     | Yunnan tin Co.,LTD  | CHINA                  |
| Gold (Au)     | Zijin Kuang Ye Refinery                                       | CHINA                  |
| Tantalum (Ta) | A&M Minerals Ltd.   | UNITED KINGDOM         |
| Tantalum (Ta) | Acciaierie Bertoli Safau                                      | ITALY                  |
| Tantalum (Ta) | AGL   | UNITED STATES          |
| Tantalum (Ta) | Allgemeine Gold-und Silberscheideanstalt A.G.                 | GERMANY                |
| Tantalum (Ta) | Almalyk Mining and Metallurgical Complex (AMMC)               | UZBEKISTAN             |
| Tantalum (Ta) | ALMT TUNGSTEN Corp.   | CHINA                  |
| Tantalum (Ta) | ALMT TUNGSTEN Corp.   | JAPAN                  |
| Tantalum (Ta) | Alpha   | UNITED STATES          |
| Tantalum (Ta) | AMG Mining Mibra Mine   | BRAZIL                 |
| Tantalum (Ta) | AngloGold Ashanti Córrego do Sítio Mineraçao                  | BRAZIL                 |
| Tantalum (Ta) | ANHUI HERRMAN IMPEX CO., LTD                                  | CHINA                  |
| Tantalum (Ta) | ANZ   | AUSTRALIA              |
| Tantalum (Ta) | Argor-Heraeus SA  | SWITZERLAND            |
| Tantalum (Ta) | Asahi Pretec Corporation                                      | JAPAN                  |
| Tantalum (Ta) | Atasay Kuyumculuk Sanayi Ve Ticaret A.S.                      | TURKEY                 |
| Tantalum (Ta) | ATI Tungsten Materials  | UNITED STATES          |
| Tantalum (Ta) | Aurubis, Norddeutsche Affinerie AG                            | GERMANY                |
| Tantalum (Ta) | Avon Specialty Metals Ltd                                     | UNITED KINGDOM         |
| Tantalum (Ta) | Bangko Sentral ng Pilipinas (Central Bank of the Philippines) | PHILIPPINES            |
| Tantalum (Ta) | Bauer Walser AG   | GERMANY                |
| Tantalum (Ta) | BÖHLER Schmiedetechn  | AUSTRIA                |
| Tantalum (Ta) | Boliden Mineral AB  | SWEDEN                 |
| Tantalum (Ta) | Changsha South Tantalum Niobium Co., Ltd.                     | CHINA                  |
| Tantalum (Ta) | China Rare Metal Materials Company                            | CHINA                  |
| Tantalum (Ta) | Conghua Tantalum and Niobium Smeltry                          | CHINA                  |
| Tantalum (Ta) | Coral Bay Nickel Corporation / Philippines                    | PHILIPPINES            |
| Tantalum (Ta) | D Block Metals, LLC   | UNITED STATES          |
| Tantalum (Ta) | Dayu Weiliang Tungsten Co., Ltd.                              | CHINA                  |
| Tantalum (Ta) | Doduco GmbH   | GERMANY                |
| Tantalum (Ta) | Douluoshan Sapphire Rare Metal Co Ltd                         | CHINA                  |

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|---------------|--|---------------------------------------|
| Tantalum (Ta) | Duo Luo Shan Sapphire Rare Metal Co., Ltd            |                                       |
| Tantalum (Ta) | E. MA TA PHUT, THAILAND                              | THAILAND                              |
| Tantalum (Ta) | E.S.R. Electronics                                   | UNITED STATES                         |
| Tantalum (Ta) | Estanho de Rondônia S.A.                             | UNITED STATES                         |
| Tantalum (Ta) | Ethiopian Minerals Development Share Company         | ETHIOPIA                              |
| Tantalum (Ta) | Exotech Inc.   | UNITED STATES                         |
| Tantalum (Ta) | F&X Electro-Materials Ltd.                           | CHINA                                 |
| Tantalum (Ta) | FIR Metals & Resource Ltd.                           | CHINA                                 |
| Tantalum (Ta) | Fujian Jinxin Tungsten Co., Ltd.                     | CHINA                                 |
| Tantalum (Ta) | Ganzhou Huaxing Tungsten Products Co., Ltd.          | CHINA                                 |
| Tantalum (Ta) | Ganzhou Nonferrous Metals Smelting Co., Ltd.         | CHINA                                 |
| Tantalum (Ta) | Ganzhou Seadragon W & Mo Co., Ltd.                   | CHINA                                 |
| Tantalum (Ta) | Gejiu Zili Mining And Metallurgy Co., Ltd.           | CHINA                                 |
| Tantalum (Ta) | Global Advanced Metals Aizu                          | JAPAN                                 |
| Tantalum (Ta) | Global Advanced Metals Boyertown                     | UNITED STATES                         |
| Tantalum (Ta) | Global Tungsten & Powders Corp.                      | UNITED STATES                         |
| Tantalum (Ta) | Gloria Material Technology                           | TAIWAN                                |
| Tantalum (Ta) | Guangdong Xianglu Tungsten Industry Co., Ltd.        | CHINA                                 |
| Tantalum (Ta) | Guangdong Zhiyuan New Material Co., Ltd.             | CHINA                                 |
| Tantalum (Ta) | Guizhou Zhenhua Xinyun Technology Ltd., Kaili branch | CHINA                                 |
| Tantalum (Ta) | Han Sung Metar                                       | KOREA                                 |
| Tantalum (Ta) | HC Starck Co., Ltd.                                  | THAILAND                              |
| Tantalum (Ta) | HC Starck GmbH                                       | GERMANY, JAPAN, UNITED STATES, RUSSIA |
| Tantalum (Ta) | HC Starck GmbH Goslar                                | GERMANY                               |

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| Tantalum<br>(Ta) | HC Starck GmbH Hermsdorf                          | GERMANY              |
| Tantalum<br>(Ta) | HC Starck GmbH Laufenburg                         | GERMANY              |
| Tantalum<br>(Ta) | HC Starck Inc.                                    | UNITED STATES, JAPAN |
| Tantalum<br>(Ta) | HC Starck Ltd.                                    | JAPAN                |
| Tantalum<br>(Ta) | HC Starck Smelting GmbH & Co.KG                   | GERMANY              |
| Tantalum<br>(Ta) | Hengyang King Xing Lifeng New Materials Co., Ltd. | CHINA                |
| Tantalum<br>(Ta) | Heraeus Precious Metals GmbH & Co. KG             | GERMANY              |
| Tantalum<br>(Ta) | Hi-Temp Specialty Metals, Inc.                    | UNITED STATES        |
| Tantalum<br>(Ta) | IPS   | FRANCE               |
| Tantalum<br>(Ta) | Ishifuku Metal Industry Co., Ltd.                 | JAPAN                |
| Tantalum<br>(Ta) | Japan New Metals Co., Ltd.                        | JAPAN                |
| Tantalum<br>(Ta) | Jiangxi Dinghai Tantalum & Niobium Co., Ltd.      | CHINA                |
| Tantalum<br>(Ta) | Jiangxi Tuohong New Raw Material                  | CHINA                |
| Tantalum<br>(Ta) | JiuJiang JinXin Nonferrous Metals Co., Ltd.       | CHINA                |
| Tantalum<br>(Ta) | Jiujiang Tanbre Co., Ltd.                         | CHINA                |
| Tantalum<br>(Ta) | Jiujiang Zhongao Tantalum & Niobium Co., Ltd.     | CHINA                |

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| Tantalum (Ta)JX Nippon Mining & Metals Co., Ltd.                                       | JAPAN              |
| Tantalum (Ta)KEMET Blue Metals   | MEXICO             |
| Tantalum (Ta)KEMET Blue Powder   | UNITED STATES      |
| Tantalum (Ta)King-Tan Tantalum Industry Ltd.   | CHINA              |
| Tantalum (Ta)KOVOHUTÌ PŔÍBRAM NÁSTUPNICKÁ, A.S.  | CZECH REPUBLIC     |
| Tantalum (Ta)LSM Brasil S.A.   | BRAZIL             |
| Tantalum (Ta)Metallo Chimique  | BELGIUM            |
| Tantalum (Ta)Metallurgical Products India Pvt., Ltd.                                   | INDIA              |
| Tantalum (Ta)Mineração Taboca S.A.   | BRAZIL             |
| Tantalum (Ta)Minsur S.A. Tin Metal   | PERU               |
| Tantalum (Ta)Mitsui Mining & Smelting  | JAPAN              |
| Tantalum (Ta)Mitsui Mining and Smelting Co., Ltd.                                      | JAPAN              |
| Tantalum (Ta)Molycorp Silmet A.S.  | ESTONIA            |
| Tantalum (Ta)Ningxia Orient Tantalum Industry Co., Ltd.                                | CHINA              |
| Tantalum (Ta)Nitora  | SWITZERLAND        |
| Tantalum (Ta)Noventa   | MOZAMBIQUE         |
| Tantalum (Ta)OJSC "The Gulidov Krasnoyarsk Nonferrous Metals Plant" (OJSC Krastvetmet) | RUSSIA             |
| Tantalum (Ta)Plansee SE Liezen   | AUSTRIA            |
| Tantalum (Ta)Plansee SE Reutte   | AUSTRIA            |
| Tantalum (Ta)Posco   | SOUTH KOREA        |
| Tantalum (Ta)PT Artha Cipta Langgeng   | INDONESIA          |
| Tantalum (Ta)PT Bangka Timah Utama Sejahtera   | INDONESIA          |
| Tantalum (Ta)PT Koba   | INDONESIA          |
| Tantalum (Ta)QuantumClean  | UNITED STATES      |
| Tantalum (Ta)Rand Refinery (Pty) Ltd.  | SOUTH AFRICA       |
| Tantalum (Ta)Resind Indústria e Comércio Ltda  | BRAZIL             |
| Tantalum (Ta)RFH Tantalum Smeltry Co., Ltd.  | CHINA              |
| Tantalum (Ta)Solikamsk Magnesium Works OAO   | RUSSIA             |
| Tantalum (Ta)Taki Chemicals  | JAPAN              |
| Tantalum (Ta)Tanco   | CANADA             |
| Tantalum (Ta)Tantalite Resources   | SOUTH AFRICA       |
| Tantalum (Ta)Tejing (Vietnam) Tungsten Co., Ltd.                                       | VIETNAM            |
| Tantalum (Ta)Telex Metals  | UNITED STATES      |
| Tantalum (Ta)Tokuriki Honten Co., Ltd.   | JAPAN              |
| Tantalum (Ta)Torecom   | KOREA, REPUBLIC OF |
| Tantalum (Ta)Tranzact, Inc.  | UNITED STATES      |
| Tantalum (Ta)Ulba Metallurgical Plant JSC  | KAZAKHSTAN         |
| Tantalum (Ta)Vietnam Youngsun Tungsten Industry Co., Ltd.                              | VIETNAM            |
| Tantalum (Ta)VISHAY TANTALUM   | ISRAEL, PANAMA     |
| Tantalum (Ta)VQB MINERAL AND TRADING GROUP JOINT STOCK COMPANY                         | VIETNAM            |
| Tantalum (Ta)Wolfram Bergbau und Hütten AG   | AUSTRIA            |
| Tantalum (Ta)Xiamen Tungsten Co., Ltd.   | CHINA              |
| Tantalum (Ta)XinXing HaoRong Electronic Material Co., Ltd.                             | CHINA              |
| Tantalum (Ta)Yichun Jin Yang Rare Metal Co., Ltd.                                      | CHINA              |

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|---------------|--|---------------------------------|
| Tantalum (Ta) | Zhuzhou Cemented Carbide Group Co Ltd                    | CHINA                           |
| Tin (Sn)      | 5N Plus  | GERMANY, UNITED KINGDOM         |
| Tin (Sn)      | ABC  | ALGERIA                         |
| Tin (Sn)      | Academy Precious Metals (China) Co.,Ltd                  | CHINA                           |
| Tin (Sn)      | Acciaierie Bertoli Safau                                 | ITALY                           |
| Tin (Sn)      | ACT JAPAN  | JAPAN                           |
| Tin (Sn)      | ACuPowder International, LLC                             | UNITED STATES                   |
| Tin (Sn)      | AFICA  | FRANCE                          |
| Tin (Sn)      | AGR Mathey   | AUSTRALIA                       |
| Tin (Sn)      | Aida Chemical Industries Co., Ltd.                       | JAPAN                           |
| Tin (Sn)      | AIM  | CANADA                          |
| Tin (Sn)      | A-kyo Enterprise Co. Ltd.                                | TAIWAN                          |
| Tin (Sn)      | Allgemeine Gold-und Silberscheideanstalt A.G.            | GERMANY                         |
| Tin (Sn)      | ALMAG  | MALAYSIA                        |
| Tin (Sn)      | ALMT TUNGSTEN Corp.                                      | JAPAN                           |
| Tin (Sn)      | Alpha  | KOREA, TAIWAN, UNITED STATES    |
| Tin (Sn)      | Amalgamated Aluminum & Alloys                            | UNITED ARAB EMIRATES            |
| Tin (Sn)      | Amalgamated Metal Corporation                            | UNITED KINGDOM, INDONESIA, PERU |
| Tin (Sn)      | Amalgamet Inc  | UNITED KINGDOM, PERU            |
| Tin (Sn)      | An Thai Minerals Company Limited                         | VIETNAM                         |
| Tin (Sn)      | An Vinh Joint Stock Mineral Processing Company           | VIETNAM                         |
| Tin (Sn)      | APPS-CONNECT PTE LTD                                     | SINGAPORE                       |
| Tin (Sn)      | Asahi Pretec Corporation                                 | JAPAN                           |
| Tin (Sn)      | Asaka Riken Co., Ltd.                                    | JAPAN                           |
| Tin (Sn)      | ASTAMUSE   | KOREA                           |
| Tin (Sn)      | ATI Metalworking Products                                | UNITED STATES                   |
| Tin (Sn)      | ATM ESTANHO IND COM IMP EXP LTDA                         | BRAZIL                          |
| Tin (Sn)      | Aurubis AG   | GERMANY                         |
| Tin (Sn)      | Aurubis Netherlands                                      | NETHERLANDS                     |
| Tin (Sn)      | Ausmelt Limited  | AUSTRALIA                       |
| Tin (Sn)      | Bangjia Island   | INDONESIA                       |
| Tin (Sn)      | Baoshida Swissmetal                                      | SWITZERLAND                     |
| Tin (Sn)      | Befesa Aluminio, S.L.                                    | SPAIN                           |
| Tin (Sn)      | Boliden Bergsoe AB                                       | SWEDEN                          |
| Tin (Sn)      | BT Solders Pvt Ltd                                       | INDIA                           |
| Tin (Sn)      | C. Hafner GmbH + Co. KG                                  | GERMANY                         |
| Tin (Sn)      | Caridad  | MEXICO                          |
| Tin (Sn)      | Cendres + Métaux SA                                      | SWITZERLAND                     |
| Tin (Sn)      | Chengfeng Metals Co Pte Ltd                              | CHINA, SINGAPORE                |
| Tin (Sn)      | Chenzhou Yun xiang Mining and Metallurgy Company Limited | CHINA, UNITED KINGDOM           |
| Tin (Sn)      | China Rare Metal Materials Company                       | CHINA                           |
| Tin (Sn)      | China Tin Group Co., Ltd.                                | CHINA                           |
| Tin (Sn)      | China tin metal materials in guangxi branch              | HONG KONG                       |
| Tin (Sn)      | Chorus Tata Steel  | BELGIUM                         |





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|---|----------------|
| Tin (Sn)Chugai Mining   | JAPAN          |
| Tin (Sn)CNMC (Guangxi) PGMA Co., Ltd.   | CHINA          |
| Tin (Sn)Codelco   | CHILE          |
| Tin (Sn)Complejo Metalurgico Vinto S.A.   | BOLIVIA        |
| Tin (Sn)Conghua Tantalum and Niobium Smeltry  | CHINA          |
| Tin (Sn)Constellium Extrusions Decin s.r.o.   | CZECH REPUBLIC |
| Tin (Sn)Cooper Santa  | BRAZIL,        |
|   | INDONESIA      |
| Tin (Sn)CSC Pure Technologies   | RUSSIA         |
| Tin (Sn)CV Ayi Jaya   | INDONESIA      |
| Tin (Sn)CV Dua Sekawan  | INDONESIA      |
| Tin (Sn)CV Gita Pesona  | INDONESIA      |
| Tin (Sn)CV JusTindo   | INDONESIA      |
| Tin (Sn)CV Nurjanah   | INDONESIA      |
| Tin (Sn)CV Serumpun Sebalai   | INDONESIA      |
| Tin (Sn)CV Tiga Sekawan   | INDONESIA      |
| Tin (Sn)CV United Smelting  | INDONESIA      |
| Tin (Sn)CV Venus Inti Perkasa   | INDONESIA      |
| Tin (Sn)Daejin Indus Co., Ltd.  | SOUTH KOREA    |
| Tin (Sn)Daiki Aluminium Industry (Thailand)Co.,Ltd.   | THAILAND       |
| Tin (Sn)Dede Kimya  | TURKEY         |
| Tin (Sn)Doduco GmbH   | GERMANY        |
| Tin (Sn)Dowa  | JAPAN          |
| Tin (Sn)Dowa Metals & Mining Co. Ltd  | JAPAN          |
| Tin (Sn)Duni Ljevaonica obojenih metala   | CROATIA        |
| Tin (Sn)Eco-System Recycling Co., Ltd.  | JAPAN          |
| Tin (Sn)Edzell Corp   | URUGUAY        |
| Tin (Sn)Electro-Mechanical Facility of the Cao Bang Minerals & Metallurgy Joint Stock Company | CHINA, VIETNAM |
| Tin (Sn)EM Vinto  | BOLIVIA        |
| Tin (Sn)Estanho de Rondônia S.A.  | BRAZIL         |
| Tin (Sn)E-tech Philippines  | PHILIPPINES    |
| Tin (Sn)Exim Americana  | MEXICO         |
| Tin (Sn)Eximetal S.A.   | ARGENTINA      |
| Tin (Sn)Exotech Inc.  | UNITED STATES  |
| Tin (Sn)F&X Electro-Materials Ltd.  | CHINA          |
| Tin (Sn)Feinhütte Halsbrücke GmbH   | GERMANY        |
| Tin (Sn)Fenix Metals  | POLAND         |
| Tin (Sn)FIR Metals & Resource Ltd.  | CHINA          |
| Tin (Sn)FSE Novosibirsk Refinery  | RUSSIA         |
| Tin (Sn)Funsur Smelter  | PERU           |
| Tin (Sn)Ganzhou Huaxing Tungsten Products Co., Ltd.   | CHINA          |
| Tin (Sn)Ganzhou Jiangwu Ferrotungsten Co., Ltd.   | CHINA          |
| Tin (Sn)Ganzhou Seadragon W & Mo Co., Ltd.  | CHINA          |
| Tin (Sn)Geib Refining Corporation   | TAIWAN         |
| Tin (Sn)Gejiu Fengming Metallurgy Chemical Plant  | CHINA          |



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|---|----------------------------|
| Tin (Sn) Gejiu KaiMeng Industrial and Trade Mineral Co.Ltd. | CHINA, INDONESIA           |
| Tin (Sn) Gejiu Yunxin Nonferrous Electrolysis Co., Ltd.     | CHINA                      |
| Tin (Sn) Gejiu Zili Mining And Metallurgy Co., Ltd.         | BOLIVIA, CHINA             |
| Tin (Sn) Global Tungsten & Powders Corp.                    | UNITED STATES              |
| Tin (Sn) GUANGXI CHINA TIN GROUP CO.,LTD                    | TAIWAN                     |
| Tin (Sn) Guanyang Guida Nonferrous Metal Smelting Plant     | CHINA                      |
| Tin (Sn) Handok   | SOUTH KOREA                |
| Tin (Sn) Harmony Gold Refinery                              | SOUTH AFRICA               |
| Tin (Sn) Hayes Metals                                       | NEW ZEALAND                |
| Tin (Sn) HC Starck Co., Ltd.                                | THAILAND                   |
| Tin (Sn) HC Starck Inc.                                     | UNITED STATES              |
| Tin (Sn) HC Starck Ltd.                                     | JAPAN                      |
| Tin (Sn) Heimerle + Meule GmbH                              | GERMANY                    |
| Tin (Sn) Heraeus Ltd. Hong Kong                             | HONG KONG                  |
| Tin (Sn) Heraeus Precious Metals GmbH & Co. KG              | FRANCE, GERMANY, SINGAPORE |
| Tin (Sn) Hi-Temp Specialty Metals, Inc.                     | UNITED STATES              |
| Tin (Sn) HuiChang Hill Tin Industry Co., Ltd.               | CHINA                      |
| Tin (Sn) Huichang Jinshunda Tin Co., Ltd.                   | CHINA                      |
| Tin (Sn) Hwasung CJ Co., Ltd.                               | KOREA, REPUBLIC OF         |
| Tin (Sn) Ishifuku Metal Industry Co., Ltd.                  | JAPAN                      |
| Tin (Sn) Japan Mint   | BRAZIL                     |
| Tin (Sn) Japan New Metals Co., Ltd.                         | CHINA, JAPAN               |
| Tin (Sn) Jiangxi Copper Company Limited                     | CHINA                      |
| Tin (Sn) Jiangxi Nanshan                                    | CHINA                      |
| Tin (Sn) Jiangxi Yaosheng Tungsten Co., Ltd.                | CHINA                      |
| Tin (Sn) JiuJiang JinXin Nonferrous Metals Co., Ltd.        | CHINA                      |
| Tin (Sn) Jiujiang Tanbre Co., Ltd.                          | CHINA                      |
| Tin (Sn) Johnson Matthey Inc                                | UNITED STATES              |
| Tin (Sn) Johnson Matthey Limited                            | CANADA                     |
| Tin (Sn) JSC Ekaterinburg Nonferrous Metal Processing Plant | RUSSIA                     |
| Tin (Sn) JSC Uralelectromed                                 | RUSSIA                     |
| Tin (Sn) JX Nippon Mining & Metals Co., Ltd.                | JAPAN                      |
| Tin (Sn) Kazzinc  | KAZAKHSTAN                 |
| Tin (Sn) KEMET Blue Metals                                  | MEXICO                     |
| Tin (Sn) KEMET Blue Powder                                  | UNITED STATES              |
| Tin (Sn) King-Tan Tantalum Industry Ltd.                    | CHINA                      |
| Tin (Sn) KME  | FRANCE, GERMANY            |
| Tin (Sn) Kojima Chemicals Co., Ltd.                         | JAPAN                      |
| Tin (Sn) KOKI   | JAPAN, THAILAND            |
| Tin (Sn) Korea Metal Co., Ltd.                              | KOREA                      |
| Tin (Sn) Kundur Smelter                                     | INDONESIA                  |
| Tin (Sn) Kyrgyzaltyn JSC                                    | KYRGYZSTAN                 |
| Tin (Sn) L' azurde Company For Jewelry                      | SAUDI ARABIA               |

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|---|---------------------------|
| Tin (Sn) Lingbao Jinyuan Tonghui Refinery Co., Ltd. | CHINA                     |
| Tin (Sn) Linqu Xianggui Smelter Co. Ltd.            | CHINA                     |
| Tin (Sn) LSM Brasil S.A.                            | BRAZIL                    |
| Tin (Sn) LS-NIKKO Copper Inc.                       | REPUBLIC OF KOREA         |
| Tin (Sn) MacDermid                                  | UNITED STATES, GERMANY    |
| Tin (Sn) Magnu's Minerai's Metais e Ligas Ltda.     | BRAZIL                    |
| Tin (Sn) Malaysia Smelting Corporation (MSC)        | INDONESIA, MALAYSIA, PERU |
| Tin (Sn) Matsuda Sangyo Co., Ltd.                   | JAPAN                     |
| Tin (Sn) MCP Mining & Chemical Products Ltd. UK     | ENGLAND                   |
| Tin (Sn) Medeko CAST                                | SLOVAKIA                  |
| Tin (Sn) Melt Metais e Ligas S/A                    | BRAZIL                    |
| Tin (Sn) Mentok Smelter                             | INDONESIA                 |
| Tin (Sn) Metahub Industries Sdn. Bhd.               | MALAYSIA                  |
| Tin (Sn) Metallic Resources Inc                     | UNITED STATES             |
| Tin (Sn) Metallo Chimique                           | BELGIUM                   |
| Tin (Sn) Metalor USA Refining Corporation           | UNITED STATES             |
| Tin (Sn) Mineração Taboca S.A.                      | BRAZIL                    |
| Tin (Sn) Minsur S.A. Tin Metal                      | BOLIVIA                   |
| Tin (Sn) Mitsubishi Materials Corporation           | TAIWAN, JAPAN, CHINA      |
| Tin (Sn) Mitsui kinzoku Co Ltd takehara seirenjyo   | JAPAN                     |
| Tin (Sn) Mitsui Mining & Smelting                   | JAPAN                     |
| Tin (Sn) Navoi Mining and Metallurgical Combinat    | UZBEKISTAN                |
| Tin (Sn) NGHE TIN Nonferrous METAL                  | INDONESIA, VIETNAM        |
| Tin (Sn) Ningxia Orient Tantalum Industry Co., Ltd. | CHINA, UNITED STATES      |
| Tin (Sn) O.M. Manufacturing (Thailand) Co., Ltd.    | THAILAND                  |
| Tin (Sn) O.M. Manufacturing Philippines, Inc.       | PHILIPPINES               |
| Tin (Sn) Ohura Precious Metal Industry Co., Ltd.    | GERMANY                   |
| Tin (Sn) OMSA                                       | BOLIVIA                   |
| Tin (Sn) Phoenix Metal Ltd.                         | RWANDA                    |
| Tin (Sn) Plansee Group                              | AUSTRIA                   |
| Tin (Sn) PT Alam Lestari Kencana                    | INDONESIA                 |
| Tin (Sn) PT Aneka Tambang (Persero) Tbk             | INDONESIA                 |
| Tin (Sn) PT Artha Cipta Langgeng                    | INDONESIA                 |
| Tin (Sn) PT ATD Makmur Mandiri Jaya                 | INDONESIA                 |
| Tin (Sn) PT Babel Inti Perkasa                      | INDONESIA                 |
| Tin (Sn) PT Bangka Kudai Tin                        | INDONESIA                 |
| Tin (Sn) PT Bangka Putra Karya                      |                           |
| Tin (Sn) PT Bangka Timah Utama Sejahtera            | INDONESIA                 |
| Tin (Sn) PT Bangka Tin Industry                     | INDONESIA                 |
| Tin (Sn) PT Belitung Industri Sejahtera             | INDONESIA                 |
| Tin (Sn) PT BilliTin Makmur Lestari                 | INDONESIA                 |
| Tin (Sn) PT Bukit Timah                             | INDONESIA                 |
| Tin (Sn) PT Bukit Timah                             | THAILAND                  |
| Tin (Sn) PT Cipta Persada Mulia                     | INDONESIA                 |

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| Tin (Sn) PT DS Jaya Abadi                                 | INDONESIA                 |
| Tin (Sn) PT Eunindo Usaha Mandiri                         | INDONESIA                 |
| Tin (Sn) PT Fang Di MulTindo                              | INDONESIA                 |
| Tin (Sn) PT Inti Stania Prima                             | INDONESIA                 |
| Tin (Sn) PT Karimun Mining                                | INDONESIA                 |
| Tin (Sn) PT Kijang Jaya Mandiri                           | INDONESIA                 |
| Tin (Sn) PT Mitra Stania Prima                            | INDONESIA                 |
| Tin (Sn) PT Panca Mega Persada                            | INDONESIA                 |
| Tin (Sn) PT Pelat Timah Nusantara Tbk                     | INDONESIA                 |
| Tin (Sn) PT Prima Timah Utama                             | INDONESIA                 |
| Tin (Sn) PT Refined Bangka Tin                            | INDONESIA                 |
| Tin (Sn) PT Sariwiguna Binasentosa                        | INDONESIA                 |
| Tin (Sn) PT Seirama Tin Investment                        | INDONESIA                 |
| Tin (Sn) PT Stanindo Inti Perkasa                         | INDONESIA                 |
| Tin (Sn) PT Sukses Inti Makmur                            | INDONESIA                 |
| Tin (Sn) PT Sumber Jaya Indah                             | INDONESIA                 |
| Tin (Sn) PT Tambang Timah                                 | BOLIVIA                   |
| Tin (Sn) PT Timah (Persero) Tbk                           | BOLIVIA, MALAYSIA         |
| Tin (Sn) PT Tinindo Inter Nusa                            | INDONESIA                 |
| Tin (Sn) PT Tirus Putra Mandiri                           | INDONESIA                 |
| Tin (Sn) PT Tommy Utama                                   | INDONESIA                 |
| Tin (Sn) PT Wahana Perkit Jaya                            | INDONESIA                 |
| Tin (Sn) Rand Refinery (Pty) Ltd.                         | SOUTH AFRICA              |
| Tin (Sn) Resind Indústria e Comércio Ltda                 | BRAZIL                    |
| Tin (Sn) RFH Tantalum Smeltry Co., Ltd.                   | CHINA                     |
| Tin (Sn) Royal Canadian Mint                              | CANADA                    |
| Tin (Sn) Rui Da Hung                                      | TAIWAN                    |
| Tin (Sn) Sabin Metal Corp.                                | UNITED STATES             |
| Tin (Sn) Samduck Precious Metals                          | KOREA, REPUBLIC OF        |
| Tin (Sn) SAMWON Metals Corp.                              | KOREA                     |
| Tin (Sn) Schloetter Co Ltd                                | INDONESIA, UNITED KINGDOM |
| Tin (Sn) So Accurate Refining Group                       | UNITED STATES             |
| Tin (Sn) Soft Metais Ltda.                                | BRAZIL                    |
| Tin (Sn) Soft Metais Ltda.                                | CHINA                     |
| Tin (Sn) Solar Applied Materials Technology Corp.         | CHINA, TAIWAN             |
| Tin (Sn) Solikamsk Magnesium Works OAO                    | RUSSIA                    |
| Tin (Sn) Standard Lublin Sp. z o.o. (intermediary)        | POLAND                    |
| Tin (Sn) Sumitomo Metal Mining Co., Ltd.                  | JAPAN                     |
| Tin (Sn) Taki Chemicals                                   | JAPAN, UNITED STATES      |
| Tin (Sn) Tanaka Kikinzoku Kogyo K.K.                      | JAPAN                     |
| Tin (Sn) Tejing (Vietnam) Tungsten Co., Ltd.              | VIETNAM                   |
| Tin (Sn) Telex Metals                                     | UNITED STATES             |
| Tin (Sn) Thai Nguyen Nonferrous Metal Co                  | VIETNAM                   |
| Tin (Sn) Thai Solder Industry Corp., Ltd.                 | THAILAND                  |
| Tin (Sn) Thailand Smelting & Refining Co Ltd              | INDONESIA                 |
| Tin (Sn) The Great Wall Gold and Silver Refinery of China | CHINA                     |
| Tin (Sn) The Refinery of Shandong Gold Mining Co., Ltd.   | CHINA                     |



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|--------------|---|--------------------|
| Tin (Sn)     | Tokuriki Honten Co., Ltd.                           | JAPAN              |
| Tin (Sn)     | Tongling Nonferrous Metals Group Co., Ltd.          | CHINA, THAILAND    |
| Tin (Sn)     | Torecom   | KOREA, REPUBLIC OF |
| Tin (Sn)     | TRAXYS EUROPE SA                                    | LUXEMBOURG         |
| Tin (Sn)     | Tuyen Quang Nonferrous Metals Joint Stock Company   | VIETNAM            |
| Tin (Sn)     | Ulba Metallurgical Plant JSC                        | KAZAKHSTAN         |
| Tin (Sn)     | Umicore Brasil Ltda.                                | BRAZIL             |
| Tin (Sn)     | Umicore SA Business Unit Precious Metals Refining   | BELGIUM            |
| Tin (Sn)     | United Precious Metal Refining, Inc.                | UNITED STATES      |
| Tin (Sn)     | Valcambi SA   | SWITZERLAND        |
| Tin (Sn)     | VQB MINERAL AND TRADING GROUP JOINT STOCK COMPANY   | VIETNAM            |
| Tin (Sn)     | White Solder Metalurgia e Mineração Ltda.           | BRAZIL, CHINA      |
| Tin (Sn)     | Wolfram Bergbau und Hütten AG                       | AUSTRIA            |
| Tin (Sn)     | Xiamen Tungsten (H.C.) Co., Ltd.                    | CHINA              |
| Tin (Sn)     | Xiamen Tungsten Co., Ltd.                           | CHINA              |
| Tin (Sn)     | Yamamoto Precious Metal Co., Ltd.                   | JAPAN              |
| Tin (Sn)     | Yantai Zhaojin Lai Fook Precious Metals Limited     | GHANA              |
| Tin (Sn)     | Yokohama Metal Co., Ltd.                            | JAPAN              |
| Tin (Sn)     | Yunnan tin Co.,LTD                                  | CHINA, INDONESIA   |
| Tin (Sn)     | Zhongyuan Gold Smelter of Zhongjin Gold Corporation | CHINA              |
| Tin (Sn)     | Zhuzhou Cemented Carbide Group Co Ltd               | CHINA              |
| Tin (Sn)     | Zijin Mining Group Co. Ltd                          | CHINA              |
| Tungsten (W) | AB Ferrolegeringar/Minpro                           | SWEDEN             |
| Tungsten (W) | Acciaierie Bertoli Safau                            | ITALY              |
| Tungsten (W) | ACL Metais Eireli                                   | BRAZIL             |
| Tungsten (W) | AGR Mathey  | AUSTRALIA          |
| Tungsten (W) | Aida Chemical Industries Co., Ltd.                  | JAPAN              |
| Tungsten (W) | Air Liquide Far Eastern                             | KOREA              |
| Tungsten (W) | Air Products and Chemicals, Inc.                    | UNITED STATES      |
| Tungsten (W) | Alldyne Powder Technologies                         | AMERICAN SAMOA     |
| Tungsten (W) | Allied Material (A.L.M.T) Corp                      | JAPAN              |
| Tungsten (W) | Alloys Imphy  | FRANCE             |
| Tungsten (W) | Alluter Technology (Shenzhen) Co., Ltd              | CHINA              |
| Tungsten (W) | ALMT TUNGSTEN Corp.                                 | CHINA              |
| Tungsten (W) | ALMT TUNGSTEN Corp.                                 | JAPAN              |
| Tungsten (W) | Asahi Pretec Corporation                            | JAPAN              |
| Tungsten (W) | Asia Tungsten Products Vietnam Ltd.                 | VIETNAM            |
| Tungsten (W) | ASSAB   | TAIWAN             |
| Tungsten (W) | ATI Metalworking Products                           | UNITED STATES      |
| Tungsten (W) | Carbografite Equipamentos Industriais Ltda          | BRAZIL             |
| Tungsten (W) | CCR Refinery - Glencore Canada Corporation          | CANADA             |
| Tungsten (W) | Central Glass                                       | CHINA, JAPAN       |

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| Tungsten (W)CeramTec  | GERMANY                                  |
| Tungsten (W)Cerazit S.A   | LUXEMBOURG                               |
| Tungsten (W)Chenzhou Diamond Tungsten Products Co., Ltd.          | CHINA                                    |
| Tungsten (W)Chimet S.p.A.   | ITALY                                    |
| Tungsten (W)Conghua Tantalum and Niobium Smeltry                  | CHINA                                    |
| Tungsten (W)CSC Pure Technologies                                 | RUSSIA                                   |
| Tungsten (W)CTP Industries  | SINGAPORE                                |
| Tungsten (W)CV DS Jaya Abadi                                      | INDONESIA                                |
| Tungsten (W)CV United Smelting                                    | INDONESIA                                |
| Tungsten (W)Dayu Jincheng Tungsten Industry Co., Ltd.             | CHINA                                    |
| Tungsten (W)Dayu Weiliang Tungsten Co., Ltd.                      | CHINA                                    |
| Tungsten (W)Doduco GmbH   | GERMANY                                  |
| Tungsten (W)Duo luo shan  | CHINA                                    |
| Tungsten (W)Exotech Inc.  | KAZAKHSTAN                               |
| Tungsten (W)Exotech Inc.  | UNITED STATES                            |
| Tungsten (W)F.W. HEMPEL INTERMETAUX S.A.                          | SWITZERLAND                              |
| Tungsten (W)Fujian Jinxin Tungsten Co., Ltd.                      | CHINA                                    |
| Tungsten (W)Ganxian Shirui New Material Co., Ltd.                 | CHINA                                    |
| Tungsten (W)Ganzhou Huaxing Tungsten Products Co., Ltd.           | CHINA                                    |
| Tungsten (W)Ganzhou Jiangwu Ferrotungsten Co., Ltd.               | CHINA                                    |
| Tungsten (W)Ganzhou Nonferrous Metals Smelting Co., Ltd.          | CHINA                                    |
| Tungsten (W)Ganzhou Seadragon W & Mo Co., Ltd.                    | CHINA                                    |
| Tungsten (W)Ganzhou Yatai Tungsten Co., Ltd.                      | CHINA                                    |
| Tungsten (W)Global Tungsten & Powders Corp.                       | CHINA, UNITED STATES                     |
| Tungsten (W)Goodfellow Holdings Limited                           | UNITED KINGDOM                           |
| Tungsten (W)Graphite India Limited                                | INDIA                                    |
| Tungsten (W)Guangdong Xianglu Tungsten Industry Co., Ltd.         | CHINA                                    |
| Tungsten (W)HC Starck GmbH  | GERMANY, JAPAN, UNITED STATES,<br>RUSSIA |
| Tungsten (W)HC Starck Inc.  | UNITED STATES                            |
| Tungsten (W)HC Starck Ltd.  | CHINA                                    |
| Tungsten (W)HC Starck Smelting GmbH & Co.KG                       | GERMANY                                  |
| Tungsten (W)Heraeus Ltd. Hong Kong                                | HONG KONG                                |
| Tungsten (W)Hi-Temp Specialty Metals, Inc.                        | UNITED STATES                            |
| Tungsten (W)Hunan Chenzhou Mining Co., Ltd.                       | CHINA                                    |
| Tungsten (W)Hunan Chuangda Vanadium Tungsten Co., Ltd. Wuji       | CHINA                                    |
| Tungsten (W)Hunan Chuangda Vanadium Tungsten Co., Ltd.<br>Yanglin | CHINA                                    |
| Tungsten (W)Hunan Chunchang Nonferrous Metals Co., Ltd.           | CHINA                                    |
| Tungsten (W)Hydrometallurg, JSC                                   | RUSSIA                                   |
| Tungsten (W)Japan New Metals Co., Ltd.                            | JAPAN                                    |
| Tungsten (W)JCC   | CHINA                                    |
| Tungsten (W)Jiangwu H.C. Starck Tungsten Products Co., Ltd.       | CHINA                                    |



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| Tungsten (W) Jiangxi Dayu Longxintai Tungsten Co., Ltd.                   | CHINA              |
| Tungsten (W) Jiangxi Gan Bei Tungsten Co., Ltd.                           | CHINA              |
| Tungsten (W) Jiangxi Minmetals Gao'an Nonferrous Metals Co., Ltd.         | CHINA              |
| Tungsten (W) Jiangxi Tonggu Nonferrous Metallurgical & Chemical Co., Ltd. | CHINA              |
| Tungsten (W) Jiangxi Tungsten Industry Group Co Ltd                       | JAPAN              |
| Tungsten (W) Jiangxi Xinsheng Tungsten Industry Co., Ltd.                 | CHINA              |
| Tungsten (W) Jiangxi Xiushui Xianggan Nonferrous Metals Co., Ltd.         | CHINA              |
| Tungsten (W) Jiangxi Yaosheng Tungsten Co., Ltd.                          | CHINA              |
| Tungsten (W) Jiujiang Tanbre Co., Ltd.                                    | CHINA              |
| Tungsten (W) Johnson Matthey Inc  | UNITED STATES      |
| Tungsten (W) JX Nippon Mining & Metals Co., Ltd.                          | JAPAN              |
| Tungsten (W) KEMET Blue Metals  | MEXICO             |
| Tungsten (W) KEMET Blue Powder  | UNITED STATES      |
| Tungsten (W) Kennametal Fallon  | UNITED STATES      |
| Tungsten (W) LS-NIKKO Copper Inc.   | REPUBLIC OF KOREA  |
| Tungsten (W) Malaysia Smelting Corporation (MSC)                          | INDONESIA          |
| Tungsten (W) Malipo Haiyu Tungsten Co., Ltd.                              | CHINA              |
| Tungsten (W) Materion   | UNITED STATES      |
| Tungsten (W) Metallo Chimique   | BELGIUM            |
| Tungsten (W) Mineração Taboca S.A.  | BRAZIL             |
| Tungsten (W) Minsur S.A. Tin Metal  | PERU               |
| Tungsten (W) Mitsubishi Materials Corporation                             | JAPAN              |
| Tungsten (W) Mitsui Mining & Smelting                                     | JAPAN              |
| Tungsten (W) Moliren Ltd  | RUSSIA             |
| Tungsten (W) Nadir Metal Rafineri San. Ve Tic. A. <sup>a</sup>            | TURKEY             |
| Tungsten (W) Nankang Nanshan Tin Manufactory Co., Ltd.                    | CHINA              |
| Tungsten (W) Niagara Refining LLC   | UNITED STATES      |
| Tungsten (W) Ningxia Orient Tantalum Industry Co., Ltd.                   | CHINA              |
| Tungsten (W) North American Tungsten                                      | CANADA             |
| Tungsten (W) Nui Phao H.C. Starck Tungsten Chemicals Manufacturing LLC    | VIETNAM            |
| Tungsten (W) O.M. Manufacturing (Thailand) Co., Ltd.                      | THAILAND           |
| Tungsten (W) Oerlikon Metaplas GmbH                                       | LIECHTENSTEIN      |
| Tungsten (W) OJSC Kolyma Refinery   | RUSSIA             |
| Tungsten (W) OMSA   | BOLIVIA            |
| Tungsten (W) Perth Mint (Western Australia Mint)                          | AUSTRALIA          |
| Tungsten (W) Philippine Chuangxin Industrial Co., Inc.                    | PHILIPPINES        |
| Tungsten (W) Plansee  | AUSTRIA            |
| Tungsten (W) Pobedit, JSC   | RUSSIA             |
| Tungsten (W) Pobedit, JSC   | RUSSIAN FEDERATION |
| Tungsten (W) Prioksky Plant of Nonferrous Metals                          | RUSSIA             |
| Tungsten (W) PT Aneka Tambang (Persero) Tbk                               | INDONESIA          |
| Tungsten (W) PT Artha Cipta Langgeng                                      | INDONESIA          |

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| Tungsten (W) | PT Babel Inti Perkasa  | INDONESIA                 |
| Tungsten (W) | PT Bangka Kudai Tin  | INDONESIA                 |
| Tungsten (W) | PT Bangka Timah Utama Sejahtera                              | INDONESIA                 |
| Tungsten (W) | PT Bangka Tin Industry                                       | INDONESIA                 |
| Tungsten (W) | PT Belitung Industri Sejahtera                               | INDONESIA                 |
| Tungsten (W) | PT BilliTin Makmur Lestari                                   | INDONESIA                 |
| Tungsten (W) | PT Bukit Timah   | INDONESIA                 |
| Tungsten (W) | PT DS Jaya Abadi   | INDONESIA                 |
| Tungsten (W) | PT Eunindo Usaha Mandiri                                     | INDONESIA                 |
| Tungsten (W) | PT Mitra Stania Prima  | INDONESIA                 |
| Tungsten (W) | PT Pelat Timah Nusantara Tbk                                 | INDONESIA                 |
| Tungsten (W) | PT Prima Timah Utama   | INDONESIA                 |
| Tungsten (W) | PT Refined Bangka Tin  | INDONESIA                 |
| Tungsten (W) | PT Stanindo Inti Perkasa                                     | INDONESIA                 |
| Tungsten (W) | PT Sumber Jaya Indah   | INDONESIA                 |
| Tungsten (W) | PT Tambang Timah   | INDONESIA                 |
| Tungsten (W) | PT Timah (Persero) Tbk                                       | INDONESIA                 |
| Tungsten (W) | PT Tinindo Inter Nusa  | INDONESIA                 |
| Tungsten (W) | Rahman Hydraulic Tin Sdn Bhd                                 | MALAYSIA                  |
| Tungsten (W) | Sabin Metal Corp.  | UNITED STATES             |
| Tungsten (W) | Sanher Tungsten Vietnam Co., Ltd.                            | VIETNAM                   |
| Tungsten (W) | So Accurate Refining Group                                   | UNITED STATES             |
| Tungsten (W) | SOE Shyolkovsky Factory of Secondary Precious Metals         | RUSSIA                    |
| Tungsten (W) | Solar Applied Materials Technology Corp.                     | TAIWAN                    |
| Tungsten (W) | South-East Nonferrous Metal Company Limited of Hengyang City | CHINA                     |
| Tungsten (W) | Sumitomo Metal Mining Co., Ltd.                              | CHINA, JAPAN              |
| Tungsten (W) | Tejing (Vietnam) Tungsten Co., Ltd.                          | UNITED STATES,<br>VIETNAM |
| Tungsten (W) | Vietnam Youngsun Tungsten Industry Co., Ltd.                 | VIETNAM                   |
| Tungsten (W) | Wolfram Bergbau und Hütten AG                                | AUSTRIA                   |
| Tungsten (W) | Xiamen Tungsten (H.C.) Co., Ltd.                             | CHINA                     |
| Tungsten (W) | Xiamen Tungsten Co., Ltd.                                    | CHINA                     |
| Tungsten (W) | Xinfeng Huarui Tungsten & Molybdenum New Material Co., Ltd.  | CHINA                     |
| Tungsten (W) | Xinhai Rendan Shaoguan Tungsten Co., Ltd.                    | CHINA                     |
| Tungsten (W) | Zhuzhou Cemented Carbide Group Co Ltd                        | CHINA                     |

#### Product Conflict Minerals Status

After exercising due diligence, the Company determined that 62% of the suppliers are Conflict Free. It was unable to determine whether the Conflict Minerals contained in the remaining 38% of the suppliers utilized recycled or scrap sources or whether such Conflict Minerals directly or indirectly financed or benefited armed groups in the Covered Countries.

To mitigate the risk that the Conflict Minerals benefit armed groups in the Covered Countries, Arrow has reiterated its Conflict Mineral Policy to its suppliers. To improve the Company's ability to conduct due diligence, Arrow continues to request completed EICC templates from its suppliers and emphasize its support of the Conflict Minerals Rule.

Arrow's Conflict Minerals Policy can be found at:  
[http://www.arrow.com/about\\_arrow/arrow\\_conflict\\_minerals\\_policy.pdf](http://www.arrow.com/about_arrow/arrow_conflict_minerals_policy.pdf).

Conflict Minerals Disclosure/Report

The Company has prepared a Conflict Minerals Report which is attached to this Form SD as an exhibit and it has disclosed the information above on its website, [www.arrow.com](http://www.arrow.com).

Item 1.02 Exhibit

The Conflict Minerals Report required by Item 1.01 is filed as Exhibit 1.01 to this Form SD.

Section 2 - Exhibits

Item 2.01 Exhibit

Exhibit 1.01 - Conflict Minerals Report as required by Items 1.01 and 1.02 of this Form SD.

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the duly authorized undersigned.

ARROW ELECTRONICS, INC.  
(Registrant)

By: /s/ Gregory Tarpinian  
Gregory Tarpinian  
Senior V.P., General Counsel, and Secretary  
May 31, 2016