#### April 2017 Prospective Report Item 3b, Attachment 1 - Page 1 of 7 Solicitations, Contracts, Purchase Orders and Letters of Engagement - \$1 Million or Greater

|    | SOLICITATIONS   | Program                      | Release                | Anticipated<br>Contract Start | Description of Services  |  |
|----|---|------------------------------|------------------------|-------------------------------|--|--|
| 1. | Strategic Management and Operations<br>Business Consulting Spring Fed-Pool<br>(RFP No. TBD)   | ESPD                         | Summer 2017            | July 2018                     | Organization and Leadership<br>Development; Strategy and<br>Project Management;<br>Enterprise-wide pool. |  |
|    | Request for Proposal; multiple contract awards; five  | year contract term; estimate | ed contract value may  | exceed \$2M.                  |  |  |
| 2. | Sign Language Interpreting<br>Services Spring-Fed Pool<br>(RFP No. TBD)   | HRSD                         | Summer 2017            | July 2018                     | Sign language interpreting<br>services for CalPERS deaf/hard<br>of hearing staff.                        |  |
|    | Request for Proposal; multiple contract awards; five year contract term; estimated contract value may exceed \$1M.                          |                              |                        |                               |  |  |
| 3. | Human Resource<br>Management Solution<br>(HRMS)<br>(RFP No. TBD)  | HRSD                         | Summer 2017            | Fall 2017                     | Hosted HRMS Solution to<br>replace PeopleSoft Human<br>Chain Management (HCM).                           |  |
|    | Request for Proposal; single award; five year contract term; estimated contract value not to exceed \$8M over the duration of the contract. |                              |                        |                               |  |  |
| 4. | Global Investment<br>Performance Standards<br>(GIPS) Valuation and<br>Examination Services<br>(RFP No. 2017-8274)                           | INVO                         | April 2017             | October 2017                  | GIPS investment performance<br>verification and examination<br>services for GIPS compliance.             |  |
|    | Request for Proposal; single award; five year contra-   | ct term; estimated contract  | value not to exceed \$ | 1.5M over the duration        | n of the contract.   |  |

\*Solicitations are competitive bidding processes other than a Request for Proposal (RFP), such as Competitive Negotiations, Alternative Solicitations Methods (ASP), Invitation for Bid (IFB), Focused Solicitation, and Performance-Based Solicitation.

## April 2017 Prospective Report

# Solicitations, Contracts, Purchase Orders and Letters of Engagement - \$1 Million or Greater

|    | NEW CONTRACTS/AMENDMENTS  | Program                     | Award/ Initiate        | Contract/<br>Amendment Start | Description of Services   |  |  |
|----|---|-----------------------------|------------------------|------------------------------|---|--|--|
| 1. | State Controller's Office<br>(Contract No. TBD)   | HPAD                        | Spring 2017            | July 1, 2017                 | Check writing, transaction<br>auditing, and support services<br>for the Self-Funded and Flex-<br>Funded Programs. |  |  |
|    | Interagency Agreement; five year contract term; estin   | mated contract value not to | exceed \$40M over th   | e duration of the contra     | act.  |  |  |
| 2. | OptumRx, Inc.<br>(Contract No. 2016-8198)   | HPAD                        | May 2016               | January 1, 2017              | Pharmacy Benefit Management<br>Services.  |  |  |
|    | Solicitation; five year contract term; contract value no reported in April 2015 Prospective Report.           | ot to exceed \$85M over the | duration of the contra | ict. The Pharmacy Ben        | efits Manager solicitation was  |  |  |
| 3. | Altus Group<br>(Contract No. TBD)<br>INVO - Real Assets   | INVO                        | Summer 2017            | Summer 2017                  | Performance attribution services for assets for real estate funds.  |  |  |
|    | Exemption from Competitive Bid process; five year contract term; estimated contract value not to exceed \$3M. |                             |                        |                              |   |  |  |
| 4. | Capital Analytics MUFG<br>(Contract No. TBD)<br>Investment Services   | INVO                        | Fall 2017              | September 2018               | Accounting Book of Record<br>(ABOR) services for private<br>equity system known as<br>PEARS.                      |  |  |
|    | Exemption from Competitive Bid process; five year c   | ontract term; estimate cont | ract value not to exce | ed \$20M.                    |   |  |  |
| 5. | Contract Name TBD<br>(Contract No. TBD)<br>Investment Services  | INVO                        | Fall 2017              | Summer 2018                  | Accounting Book of Record<br>ABOR services for Real Assets.   |  |  |
|    | Exemption from Competitive Bid process; five year c   | ontract term; estimate cont | ract value not to exce | ed \$10M.                    |   |  |  |
| 6. | eFront Financial Solutions Inc.<br>(Contract No. TBD)<br>Investment Services                                  | INVO                        | Fall 2017              | September 2018               | Investment Book of Record<br>(IBOR) services for Private<br>Equity Investments and PEARS.                         |  |  |
|    | Exemption from Competitive Bid process; five year contract term; estimated contract value may exceed \$6M.    |                             |                        |                              |   |  |  |

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|     | NEW CONTRACTS/AMENDMENTS   | Program                      | Award/ Initiate   | Contract/<br>Amendment Start | Description of Services   |  |  |
|-----|--|------------------------------|---|------------------------------|---|--|--|
| 7.  | Ernst and Young LLP.<br>(Contract No. TBD)<br>Investment Services  | INVO                         | Spring 2017   | February 2018                | Tax Services and consulting<br>services in multiple global<br>markets for multiple asset<br>classes.                    |  |  |
|     | Exemption from Competitive Bid process; five year c  | ontract term; estimated cor  | ntract value may excee  | ed \$5M.                     |   |  |  |
| 8.  | Hamilton Lane Advisors, LLC<br>(Contract No. TBD)<br>Private Equity  | INVO                         | April 2017  | June 2018                    | External manager for the sale of<br>distributions-in-kind (stocks)<br>received from private equity<br>general partners. |  |  |
|     | Exemption from Competitive Bid process; five year c  | ontract term; estimated cor  | ntract value may excee  | ed \$5M.                     |   |  |  |
| 9.  | RERC, LLC<br>(Contract No. 2017-8287)<br>INVO – Investment Performance & Risk  | INVO                         | New   | April 2017                   | Valuation management and<br>consulting services for the Real<br>Assets Program.   |  |  |
|     | Request For Proposal; five year contract term, estimated contract value may exceed \$40M over the duration of the contract. The Request for Proposal was reported in the April 2016 Prospective Report.                                  |                              |   |                              |   |  |  |
| 10. | RERC, LLC<br>(Contract No. 2017-8287)<br>INVO – Investment Performance & Risk  | INVO                         | May 2017  | May 2017                     | Valuation management and<br>consulting services for the Real<br>Assets Program.   |  |  |
|     | Amend existing contract; amendment to add \$10M to should have been \$50M.   | contract value. The amou     | INVO May 2017 May 2017<br>ct value. The amount of \$40M was reported on the April 201 | ted on the April 2016 F      | Prospective Report the amount   |  |  |
| 11. | State Street Bank and Trust Company<br>(Contract No. 2011-6116)<br>INVO-Wide   | INVO                         | Summer/Fall 2017  | June 2018                    | Master Custody and accounting services.   |  |  |
|     | Amend existing contract; amendment to add \$3M to contract value and to update scope of work to include updates for compliance services, integration with the Artemis project and the CaIPERS Short-Term Investment Fund (STIF) project. |                              |   |                              |   |  |  |
| 12. | QSI, Inc.<br>(Contract No. TBD)<br>Global Equity   | INVO                         | Summer 2017   | November 2017                | Investment Advisory services for the Global Equity Program.   |  |  |
|     | Exemption from Competitive Bid process; five year c value may exceed \$1M/year.  | ontract term; contract value | e is "undefined" and ba   | ased on assets under r       | nanagement; estimated contract  |  |  |

## April 2017 Prospective Report Item 3b, Attachment 1 - Page 4 of 7 Solicitations, Contracts, Purchase Orders and Letters of Engagement - \$1 Million or Greater

|    | NEW CONTRACTS/AMENDMENTS  | Program | Award/ Initiate | Contract/<br>Amendment Start | Description of Services  |  |
|----|---|---------|-----------------|------------------------------|--|--|
| 13 | Contract Name TBD<br>(Contract No. TBD)<br>Global Fixed Income  | INVO    | May 2017        | July 1, 2017                 | Investment Advisory services for<br>complex investment<br>transactions for Global Fixed<br>Income. |  |
|    | Exemption from Competitive Bid process, five year contract term; contract value is "undefined" and based on sales value of the assets; estimated contract value may exceed \$1M/year. |         |                 |                              |  |  |

|    | PURCHASE ORDERS   | Program                     | Initiate        | Change Order<br>Effective | Description of Services   |  |
|----|---|-----------------------------|-----------------|---------------------------|---|--|
| 1. | EMC Corporation<br>(Purchase Order No. 51225 for software<br>maintenance and Purchase Order No. 51226 for<br>consulting services) | ITSB                        | Existing        | July 2017                 | Managed data protection and operational recovery services.  |  |
|    | Annual renewal; purchase order approximately \$2.1  | M for FY 17/18.             |                 |                           |   |  |
| 2. | Bloomberg L.P.<br>(Purchase Order No. TBD)  | INVO                        | Existing        | N/A                       | Data service provider; assists in<br>internal portfolio management<br>for multiple asset classes.                 |  |
|    | Subscription agreement; annual renewal; total purch   | ase order approximately \$5 | M for FY 17/18. |                           |   |  |
| 3. | FactSet Research Systems Inc.<br>(Purchase Order No. TBD)   | INVO                        | Existing        | N/A                       | Data service provider and tool<br>for internal portfolio<br>management for multiple asset<br>classes.             |  |
|    | Subscription agreement; annual renewal; total purchase orders not to exceed \$5M for FY 17/18.                                    |                             |                 |                           |   |  |
| 4. | Moody's Analytics, Inc.<br>(Purchase Order No. TBD)   | INVO                        | Existing        | N/A                       | Data service provider; assists in<br>internal and external portfolio<br>management for multiple asset<br>classes. |  |
|    | Subscription agreement; annual renewal; total purchase orders may exceed \$1.5M for FY 17/18.                                     |                             |                 |                           |   |  |
| 5. | MSCI, Inc.<br>(Purchase Order No. TBD)  | INVO                        | Existing        | N/A                       | Data service provider; assists in internal portfolio management for multiple asset classes.                       |  |
|    | Subscription agreement; annual renewal; total purchase orders may exceed \$1M for FY 17/18.                                       |                             |                 |                           |   |  |

# April 2017 Prospective Report Item 3b, Attachment 1 - Page 5 of 7 Solicitations, Contracts, Purchase Orders and Letters of Engagement - \$1 Million or Greater

|     | PURCHASE ORDERS   | Program   | Initiate      | Change Order<br>Effective | Description of Services  |  |  |
|-----|---|---|---------------|---------------------------|--|--|--|
| 6.  | Standard & Poor's Corporation<br>(Purchase Order No. TBD)<br>INVO-Wide  | INVO  | Existing      | N/A                       | Data service provider; assists in internal portfolio management for multiple asset classes.                      |  |  |
|     | Subscription agreement; annual renewal; total purchas   | e orders may exceed \$2.5M  | for FY 17/18. |                           |  |  |  |
| 7.  | RyeDale Europe Limited<br>(Purchase Order No. TBD)<br>INVO-Wide   | INVO  | Existing      | N/A                       | Licensed proprietary investment<br>portfolio management software<br>and data potentially other asset<br>classes. |  |  |
|     | Three year subscription agreement; annual renewal; to   | Three year subscription agreement; annual renewal; total purchase order may exceed \$1.5M for FY 17/18. |               |                           |  |  |  |
| 8.  | Thomson Reuters Markets, LLC<br>(Purchase Order No. TBD)<br>INVO-Wide   | INVO  | Existing      | N/A                       | Multiple Asset Classes. Data<br>service provider; assists in<br>internal portfolio management.                   |  |  |
|     | Subscription agreement; annual renewal; total purchase orders may exceed \$1M for FY 17/18.                           |   |               |                           |  |  |  |
| 9.  | FTSE International Limited<br>(Purchase Order No. TBD)<br>INVO-Wide   | INVO  | Existing      | N/A                       | Benchmark data services for the investment portfolios of the fund.   |  |  |
|     | Subscription agreement; annual renewal; total purchase orders may exceed \$1.5M for FY 17/18.                         |   |               |                           |  |  |  |
| 10. | Glass Lewis Research on Proxy Propositions<br>(Purchase Order No. TBD)<br>INVO-Global Equity                          | INVO  | Existing      | N/A                       | Proxy paper and voting services.   |  |  |
|     | Subscription agreement; annual renewal; total purchase order will be approximately \$3M total value through FY 17/18. |   |               |                           |  |  |  |

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# April 2017 Prospective Report Item 3b, Attachmer Solicitations, Contracts, Purchase Orders and Letters of Engagement - \$1 Million or Greater

|    | LETTERS OF ENGAGEMENT (LOE)  | Program                    | Initiate             | Contract/<br>Amendment Start | Description of Services  |
|----|--|----------------------------|----------------------|------------------------------|--|
| 1. | Data Analysis Services<br>(Contract No. TBD)                                 | ITSB                       | New                  | N/A                          | Services for data analysis and<br>data correction services for the<br>myCalPERS retirement<br>applications to analyze data<br>issues and provide effective<br>solutions.   |
|    | IT Spring-Fed Pool LOE; multiple awards; estimated                           | cost \$1.5M for FY 17/18.  | 1                    |                              |  |
| 2. | Testing Planning, Preparation and Execution<br>Service<br>(Contract No. TBD) | ITSB                       | New                  | N/A                          | Services for all testing activities<br>of the my CalPERS application<br>and my CalPERS interfaces, as<br>well as test management<br>support for the CalPERS<br>Enterprise Test Office, test tool<br>administration support, and test<br>automation services.   |
|    | IT Spring-Fed Pool LOE; multiple awards; estimated                           | cost \$2.85M for FY 17/18. | 1                    |                              |  |
| 3. | Application Development and Architecture<br>Service<br>(Contract No. TBD)    | ITSB                       | New                  | N/A                          | Services for application<br>development and support of<br>business functionality of the<br>my CalPERS system which will<br>include coding, system defect<br>analysis and resolutions, system<br>architecture design and<br>enhancement, report and batch<br>generation and support, and unit<br>and interface testing. |
|    | IT Spring-Fed Pool LOE; multiple awards; estimated                           | cost \$3.2M for FY 17/18.  |                      |                              |  |
| 4. | Bard Consulting, LLC<br>(Contract No. 2014-7427)<br>Real Assets Unit         | INVO                       | Existing             | Existing                     | Provide investment consulting<br>services including due diligence<br>and prudent person opinions.  |
|    | Real Assets Investment Consulting Services Spring-                           | Fed Pool LOE; not to excee | ed \$1.5M for FY 17/ | 18.                          |  |

### April 2017 Prospective Report Item 3b, Attachment 1 - Page 7 of 7 Solicitations, Contracts, Purchase Orders and Letters of Engagement - \$1 Million or Greater

|    | LETTERS OF ENGAGEMENT (LOE)   | Program                    | Initiate               | Contract/<br>Amendment Start | Description of Services  |  |
|----|---|----------------------------|------------------------|------------------------------|--|--|
| 5. | Cambridge Associates, LLC<br>(Contract No. 2015-7613)<br>Private Equity Program                 | INVO                       | Existing               | Existing                     | Provide investment consulting<br>services including due diligence<br>and prudent person opinions.  |  |
|    | INVO Spring-Fed Pool LOE; expected to exceed \$1  | A for FY 17/18.            |                        |                              |  |  |
| 6. | Hamilton Lane Advisors, LLC   | INVO                       | Existing               | Existing                     | Provide investment consulting<br>services including due diligence<br>and prudent person opinions.  |  |
|    | INVO Spring-Fed Pool LOE; expected to exceed \$1  | /l for FY 17/18.           |                        |                              |  |  |
| 7. | ProPoint Technology, Inc.<br>(Contract No. 2015-7874)<br>Investment Servicing Division          | INVO                       | Existing               | Existing                     | Project management application<br>development and management<br>support services to support<br>INVO Roadmap initiatives and<br>Investment technology<br>solutions. |  |
|    | IT Spring-Fed Pool and INVO Spring-Fed Pool LOEs; may exceed \$3.5M in FY 17/18.                |                            |                        |                              |  |  |
| 8. | Real Assets Audit Services<br>(Contract No. TBD)<br>Investment Servicing Division               | INVO                       | New                    | July 2017                    | Audit services for the real assets unit.   |  |
|    | Specialty Investments Audit Spring-Fed Pool LOE; multiple awards; may exceed \$1M for FY 17/18. |                            |                        |                              |  |  |
| 9. | Meketa Investment Group, Inc.<br>(Contract No. 2015-7616)<br>INVO- Private Equity               | INVO                       | New                    | March 2017                   | Private Equity Board Investment<br>Consulting Services   |  |
|    | INVO Spring-Fed Pool LOE; not to exceed \$1.9M ov<br>Committee at the March 2017 meeting.       | er the duration of engagem | hent ending June 30, 2 | 2020. This LOE was ap        | pproved by the Investment  |  |

Legend:

HPAD – Health Plan Administration Division

HRSD – Human Resources Services Division

ITSB – Information Technology Branch

INVO – Investment Office