CLAIMS

What is claimed is:

1. A method of forming a phase change material sputtering target, the method comprising:

forming a primary alloy including at least one element from Group VI of the periodic table excluding oxygen and at least one element from Group IV or Group V of the periodic table;

reducing the primary alloy to form an alloy powder;

forming a powder mixture by blending the alloy powder with an additional powder component; and

hot pressing the powder mixture to form a sputtering target, wherein the powder mixture is hot pressed at the glass transition temperature of the primary alloy.

2. The method of claim 1 wherein the additional powder is an alloy powder or an elemental powder.

3. The method of claim 1 and further comprising:

forming a second alloy including at least one element from Group VI of the periodic table excluding oxygen and at least one element from Group IV or Group V of the periodic table; and

reducing the second alloy to form a second alloy powder, and wherein the powder mixture is formed by blending the primary alloy powder, the second alloy powder and optionally one or more additional powder components.

4. The method of claim 3 wherein the second alloy has a higher hardness than the primary alloy.