Cortinarius anomalovelatus Ammirati, Berbee, Harrower, Liimatainen & Niskanen, in Joe Ammirati, Mary Berbee, Emma Harrower, Kare Liimatainen & Tuula Niskanen, sp.nov.

With an ITS sequence (GenBank no. FJ717605, Holotype JFA13109 WTU) that is distinct from other members of the section Anomali and deviating from the closest relatives, i.e. C. sp. (GenBank no. JQ393041) in the ITS region by more than 15 substitutions and indel positions. The strong grayish blue to violet colours of the young basidiomata and heavy white to buff, fluffy veil distinguish it from other species in section Anomali.

Holotype Snohomish County. Barclay Lake Trail, 28 August 2007, JFA 13109 (WTU).

Cortinarius barlowensis Ammirati, Berbee, Harrower, Liimatainen & Niskanen, in Joe Ammirati, Mary Berbee, Emma Harrower, Kare Liimatainen & Tuula Niskanen, sp.nov.

With an ITS sequence (GenBank no. FJ717554 Holotype JFA13140 WTU) that is distinct from other members of the section Anomali and deviating from the closest relatives, i.e. C. sp. (GenBank no. FR852019) in the ITS region by more than 15 substitutions and indel positions. Slender habit, bluish violaceous to grayish brown pileus, violaceous lamellae and stipe apex, thin yellowish buff veil bands on the stipe and large, ellipsoid basidiospores 7.5–11.8 x 5.9–7.0 µm) separate it from other species in section Anomali.